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March 17, 2016

Ms. Luly Massaro, Clerk Rhode Island Public Utilities Commission 89 Jefferson Boulevard Warwick, RI 02888

Re: City of Newport, Utilities Department, Water Division Docket 4595

Dear Ms. Massaro:

Enclosed please find an original and nine (9) copies of the following document:

1. City of Newport, Utilities Division, Water Department's Response to the Portsmouth Water And Fire District's Data Request (Set 2).

Please note that an electronic copy of this document has been provided to the service list.

Thank you for your attention to this matter.

Sincerely,

Joseph A. Keough, Jr.

JAK/kf Enclosure cc: Docket 4595 Service List (*via electronic mail*)

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

PWFD 2-1: Referring to Newport Water's Response to Data Request PWFD 1-4:

- Please provide the analysis that showed "very little day to day variability" for the residential class and "slight" variability for the nonresidential class.
- b. Please provide any and all analyses that Newport Water performed that demonstrate and/or support Newport Water's assumption that non-residential customers "would only use water six days a week."
- c. Please explain Newport Water's basis for concluding that it is appropriate to use a new calculation for some customers and not others and provide any documents or other materials upon which Newport Water relied to reach that conclusion.
- d. If Newport Water was to apply adjustment factors for PWFD and the Navy, please identify what those adjustment factors would be to permit PWFD to perform an analysis that would apply the same calculations for all customers.
- **Response:** a. The results of the analysis of daily variability are attached.

b. Newport did not perform any analysis to demonstrate or support the assumption that non-residential customers "would only use water six days a week". However, since most commercial establishments are typically closed at least one day per week, we believe this is a valid assumption.

c. Newport calculated new demand factors for all customers; therefore the basis for this question is unclear.

d. As stated in the response to PWFD 1-4, it would not be appropriate to apply weekly adjustment factors to the Navy and PWFD because their peaks were determined based on daily data such that the actual relationship between the Max Day and Average Day is known. As such

we cannot identify any adjustment factors that would permit PWFD to perform an analysis.

Prepared by: Harold Smith

Analysis of Daily Variability

2010

Residential

Mon Tue Wed Thu Fri Sat Sun Total Average 281,344 1,821,410 260,201 Comsumption by Day 255,804 246,671 250,968 257,411 259,266 269,946 %/Day 14% 14% 14% 14% 14% 15% 15%

 Max Day of Week
 281,344

 Avg Day
 260,201

 Min Day of Week
 246,671

 Max/Avg
 1.08

 Avg/Min
 1.05

 Avg. of Variation
 1.07

Non-Residential

Mon Tue Wed Thu Fri Sat Sun Total Average Comsumption by Day 503,140 547,874 544,875 550,660 632,325 668,736 664,213 4,111,823 587,403 %/Day 12% 13% 13% 13% 15% 16% 16% Max Day of Week 668,736 Avg Day 587,403 Min Day of Week 503,140 Max/Avg 1.14 Avg/Min 1.17 Avg. of Variation 1.15

2011

Residential

Mon Tue Wed Thu Fri Sat Sun Total Average Comsumption by Day 372,061 369,967 362,097 379,152 361,655 405,781 399,862 2,650,575 378,654 15% 14% 14% 14% 14% 15% %/Day 14%

Max Day of Week	405,781
Avg Day	378,654
Min Day of Week	361,655
Max/Avg	1.07
Avg/Min	1.05
Avg. of Variation	1.06

Non-Residential

Mon Tue Wed Thu Fri Sat Sun Total Average Comsumption by Day 1,378,008 1,488,835 1,396,620 1,498,064 1,421,178 1,745,475 1,471,640 10,399,820 1,485,689 %/Day 13% 14% 13% 14% 14% 17% 14%

 Max Day of Week
 1,745,475

 Avg Day
 1,485,689

 Min Day of Week
 1,378,008

 Max/Avg
 1.17

 Avg/Min
 1.08

 Avg. of Variation
 1.13

2012

Residential

	Mon	Tue	Wed	Thu	Fri		Sat	Sur	1	Total	Average
Comsumption by Day	399,035	373,593	358,761	364,916		370,369		379,786	419,909	2,666,369	380,910
%/Day	15%	14%	13%	14%		14%		14%	16%		
Max Day of Week	419,909										
Avg Day	380,910										
Min Day of Week	358,761										
Max/Avg	1.10										
Avg/Min	1.06										
Avg. of Variation	1.08										

Non-Residential

Thu Mon Wed Fri Tue Sat Sun Total Average Comsumption by Day 1,571,434 1,522,361 1,537,231 1,551,018 1,734,274 1,964,415 1,789,535 11,670,268 1,667,181 %/Day 13% 13% 13% 13% 15% 17% 15% Max Day of Week 1,964,415 Avg Day 1,667,181 Min Day of Week 1,522,361 Max/Avg 1.18 Avg/Min 1.10 Avg. of Variation 1.14

Three Year Averages

Residential

Max/Avg	1.09
Avg/Min	1.05
Avg. of Variation	1.07

Non-Residential

Max/Avg	1.16
Avg/Min	1.11
Avg. of Variation	1.14

PWFD 2-2: Referring to Newport Water's Response to Data Request PWFD 1-5:

a. Does Newport Water agree that it would be more appropriate to use the same period (two-year average) for the lost water calculation rather than a different three-year period.

b. If NWD disagrees, please state why using a two-year average for some uses and a three-year average for others is appropriate.

Response: a. The cost of service model used for this filing uses the same time periods that were agreed to by all parties in Dockets 4128 and 4355, and Newport did not find a compelling reason to deviate from the agreed to convention.

b. Please see the response to PWFD 2-2 a. above.

Prepared by: Harold Smith

- **PWFD 2-3:** Referring to Newport Water's Response to Data Request PWFD 1-10 and the statement in that response indicating that the August 2009 CDM Technical Memorandum formed the basis for assigning treatment capacities:
 - a. Please explain why it was appropriate to use this memorandum as the basis for assigning treatment capacities when Page 1 of the memorandum expressly states that detailed recommendations on design capacities would not be possible until after consideration of treatment process changes.
 - b. Did Newport Water update the design capacities after considering the treatment process changes?
 - c. Please provide the separate memorandum referenced in the last sentence of the August 2009 CDM Technical Memorandum.
 - d. Please explain the difference between the PWFD maximum day demand shown on page 5 of the August 2009 CDM Technical Memorandum (2.95 mgd) and the PWFD maximum day demand shown on the base of Schedule B3 (3.00 mgd).
 - e. Please provide a complete copy of the August 2009 CDM Technical Memorandum, which includes all tables referenced therein.
 - f. Please identify where and explain how the analysis provided by Newport Water incorporates the derivation of lost or unaccounted for water in the design basis, which is referenced in the August 2009 CDM Technical Memorandum.
- **Response:** a., b., and c. Using the August 2009 CDM Technical Memorandum to assign responsibility for treatment capacities is appropriate because the design capacities were not changed after consideration of treatment process changes.

The historical design capacities of the original treatment plants were 9 mgd at Station 1, and 7 mgd at Lawton Valley, for a total of 16 mgd. A primary purpose of the August 6, 2009 Technical Memorandum ("Technical Memorandum") was to determine whether the historical capacity would be sufficient for the water service area in the future. The Technical Memorandum stated on page 16 that the combined capacity should be "no less than 15 mgd." The Technical Memorandum then concluded with the statement "Following completion of the process review at Station 1, the design capacity of each WTP will be selected and presented in a separate memorandum."

At the time of the Technical Memorandum, it was not yet clear whether it would be possible to achieve the historical capacity of 9 mgd at Station 1 with the new treatment processes. If it was not possible, then Newport would have to consider increasing the Lawton Valley WTP capacity. The nature of recommended improvements at Station 1 was investigated and presented in a CDM memorandum dated January 4, 2010, from John Willis to Carol Rego and Kathy Mello. An electronic copy is attached.

This 2010 memo concluded that it was feasible to upgrade the treatment processes at Station 1 while still providing 9 mgd in capacity. Therefore, the City concluded there was no need to consider increasing the Lawton Valley WTP capacity.

d. The Max Day demand for PWFD was rounded up to 3.0 from 2.95

e. An electronic copy is attached.

f. CDM's recommended total capacity of "no less than 15 mgd" was based on the anticipated consumer demands, plus an allowance for unmetered water (20%), plus a projected 5% WTP plant use, as described in Sections 7, 8 and 11 of the Technical Memorandum. The 20% value for unmetered water was representative of the actual historical values available at that time, as shown in the paragraph that starts at the bottom of page 12. Because there was no guarantee at the time that the unmetered water could be reduced, it was conservatively decided to retain the 20% value.

Prepared by: Julia Forgue

Memorandum

To: Carol Rego, Kathy Mello

From: John Willis

Date: 1/4/2010

Re: Newport, RI – Station 1 Upgrade with DAF

I have evaluated the feasibility of converting the existing Pulsator Units at Station 1 to DAF (Dissolved Air Flotation) in order to achieve a firm plant pretreatment capacity of 9 mgd with one train out of service. I have done this analysis based on design criteria furnished to me by you as a result of the pilot program undertaken to assess alternative treatment processes. The key criteria for the purposes of my evaluation were the DAF loading rate at 12 gpm and flocculation detention time of 13 minutes. The DAF process is the high rate Aqua Daf available from Infilco Degremont.

The available space in each existing Pulsator, after demolition of the sludge hoppers, influent chamber and effluent collection channel is an area of 54 feet by 46 ft - 6 in. Areas to be demolished are shown on copies of existing drawings attached. I looked at fitting in either three 4 mgd trains or four 3 mgd trains. Using an in line arrangement of flocculation and DAF, the 4.5 mgd train was longer than the available length of 54 feet. While it may be possible to fit a 4.5 mgd train in using a different line up of flocculation and DAF, I did not further investigate this possibility. A three mgd train will fit using the following dimensions as shown on the attached Plan and Section.

Train width	12 ft -0 in
Flocculation Inlet Channel Width	2 ft - 6 in
Flocculation Tank Length	10 ft - 6 in (two tanks in series)
Flocculation Tank Water Depth	14 ft – 0 in
Flocculation Tank Effluent	2 ft – 0 in
DAF Length	15 ft – 0 in
Sludge Collection Channel	1 ft – 0 in
DAF Effluent Control	1 ft – 6 in
DAF Collection Channel	2 ft – 0 in

Walls were assumed to be 1 ft – 4 ins except the sludge channel wall is 12 ins and the weir wall is also 12 inches. I used a thinner wall for these locations to gain some length because I think these walls can have additional laterals support.

The existing pulsators operate with a water depth of about 16 feet. We need a depth of 14 ft \pm for the flocculators. I understand DAF would typically be about 10 or 11 feet water depth. It may be desirable to construct a new slab, which I think would be better structurally for the new walls.

On the attached plans I have shown two alternatives, one with two trains in Clarifier No. 1 as the first stage of construction. This would be followed by two more trains as a second stage of construction.

ALTERNATIVE 1

Alternative one would provide 6 mgd capacity. There is plenty of room left for Recycle Pumps, Compressors and Air Saturators at the bottom slab level with stairs down to them. The area could be slabbed over for more space. Second stage construction would provide two more 3 mgd trains in Clarifier No. 2.

DAF effluent could be easily tied into the existing Filter feed channels and sludge can be easily piped to the existing sludge collection hoppers in the pipe gallery.

I assume the chemistry for DAF treatment is different from that for the Pulsators. I did not look at rapid mixing for DAF or how the chemically treated water would be brought to the DAF units. I assumed that the chemically treated water would be brought through the gallery as it is now.

ALTERNATIVE 2

I have also shown a three train alternative for initial construction. This provides 9 mgd after stage one of construction. This approach requires a different layout for recycle pumps and compressors. I have shown the recycle pumps in a wet well adjacent to the DAF units. The unused space in the existing clarifier would be slabbed over. I have assumed there is space for the compressors and saturators in this area and over the flocculators, but I did not verify this. This alternative would require chemically treated water be delivered through the outside wall. While I show the clarified water being delivered to the filters through the existing channel, this may not be adequate hydraulically. An additional connection may be required. A fourth train would be constructed in Clarifier 2 as second stage construction.

CONSTRUCTION APPROACH

My take on construction is that the work would be undertaken during low the flow period, probably beginning in October. I think the work of installing the walls and equipment plus startup could be easily done in a 6 month period. Work steps would include

- Shutting off flow to Clarifier No. 1 and draining it
- Installation of temporary walls around Clarifier No.1 to isolate it from the rest of the plant
- Demolition of part of the outside wall on the east side of the plant for construction access
- Demolition of Clarifier piping
- Demolition of the sludge hoppers, effluent channels and the influent box
- Installation of new concrete slabs and walls
- Installation of mechanical equipment
- Installation of electrical and instrumentation
- Startup and Testing
- Clean up and repair of outside wall, depending on schedule for work in Clarifier No.2.

If the initial stage includes three trains, work on the fourth train could probably be done at any time. However, if only two trains are constructed initially, the second stage of construction would have to wait until the next low flow period.

QUESTIONS TO BE ANSWERED

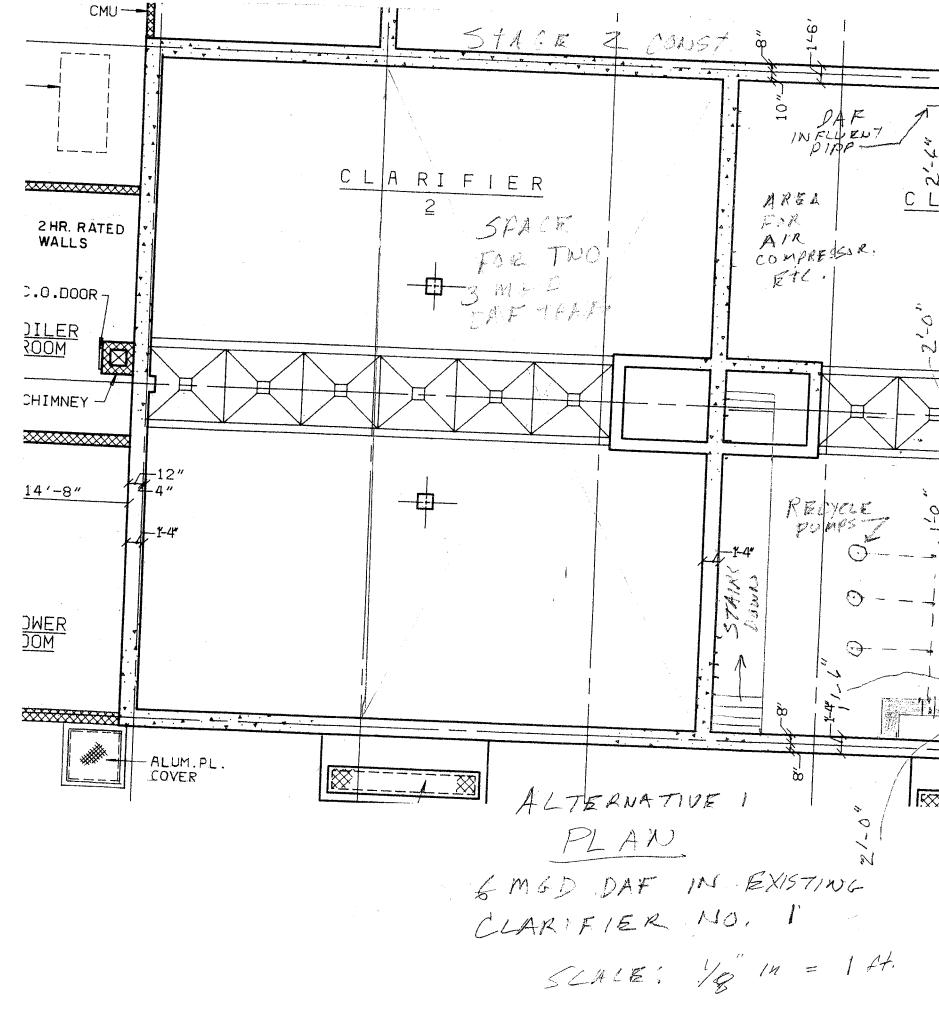
1. Will one Pulsator in operation along with the Lawton Valley Plant provide sufficient flow during the low flow periods?

2. Verification with construction services that the stage 1 work can be completed in 6 months. This is probably conservative as the low flow period is likely at least 7 or 8 months.

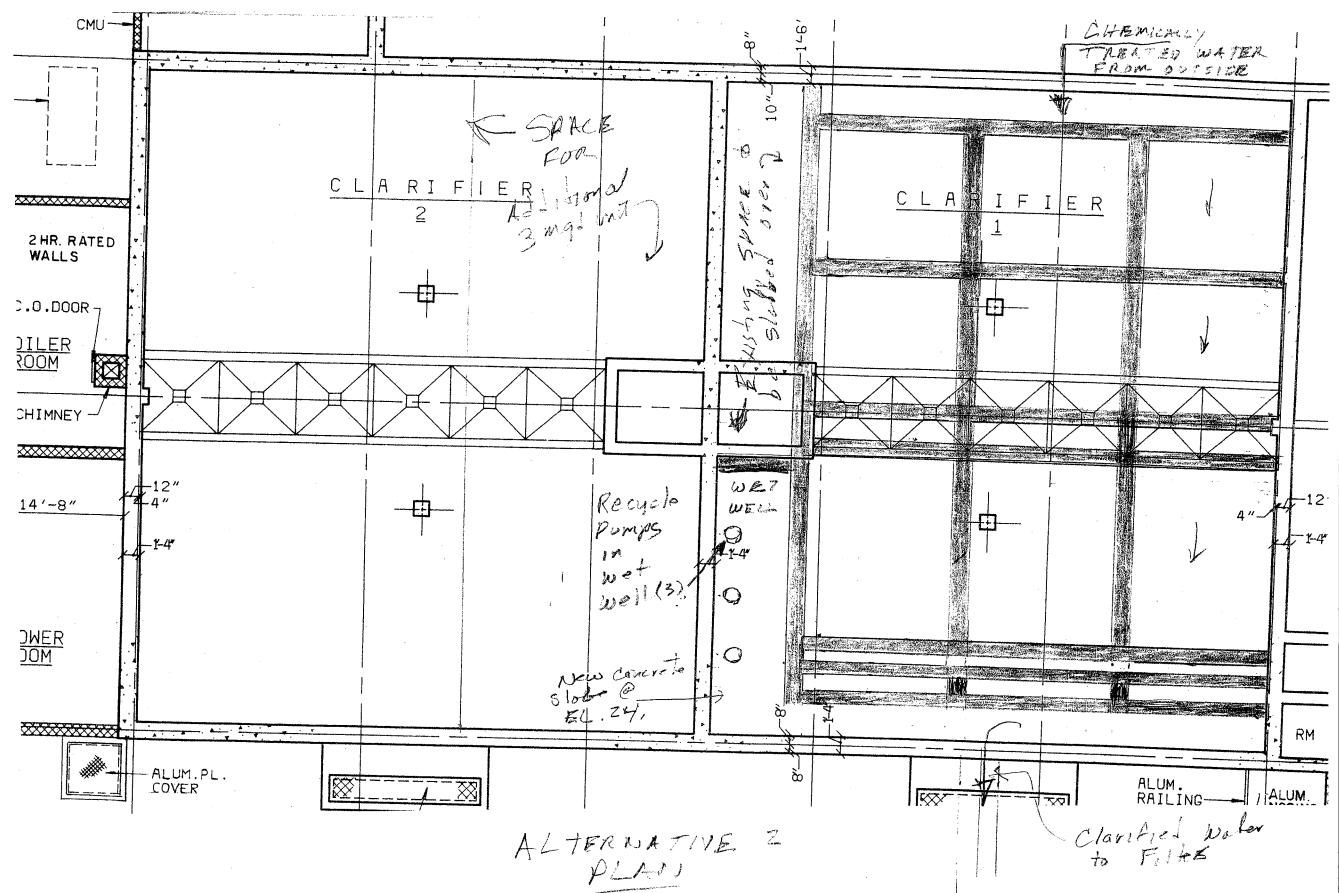
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Please call or email me if you have questions or want to discuss. Also, please let me know what additional work may be necessary.

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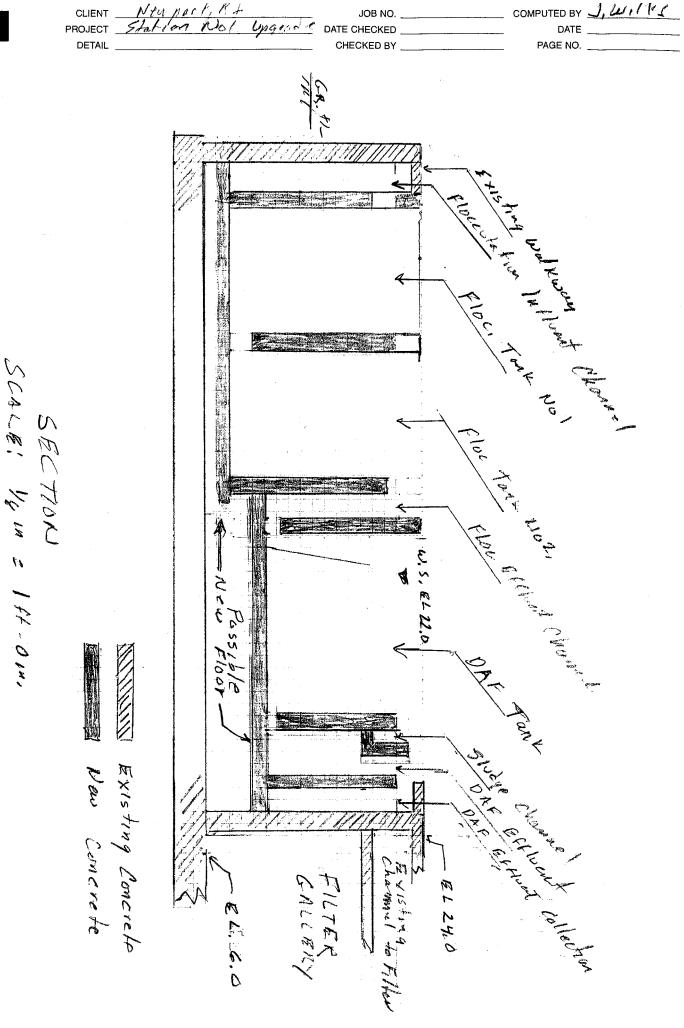


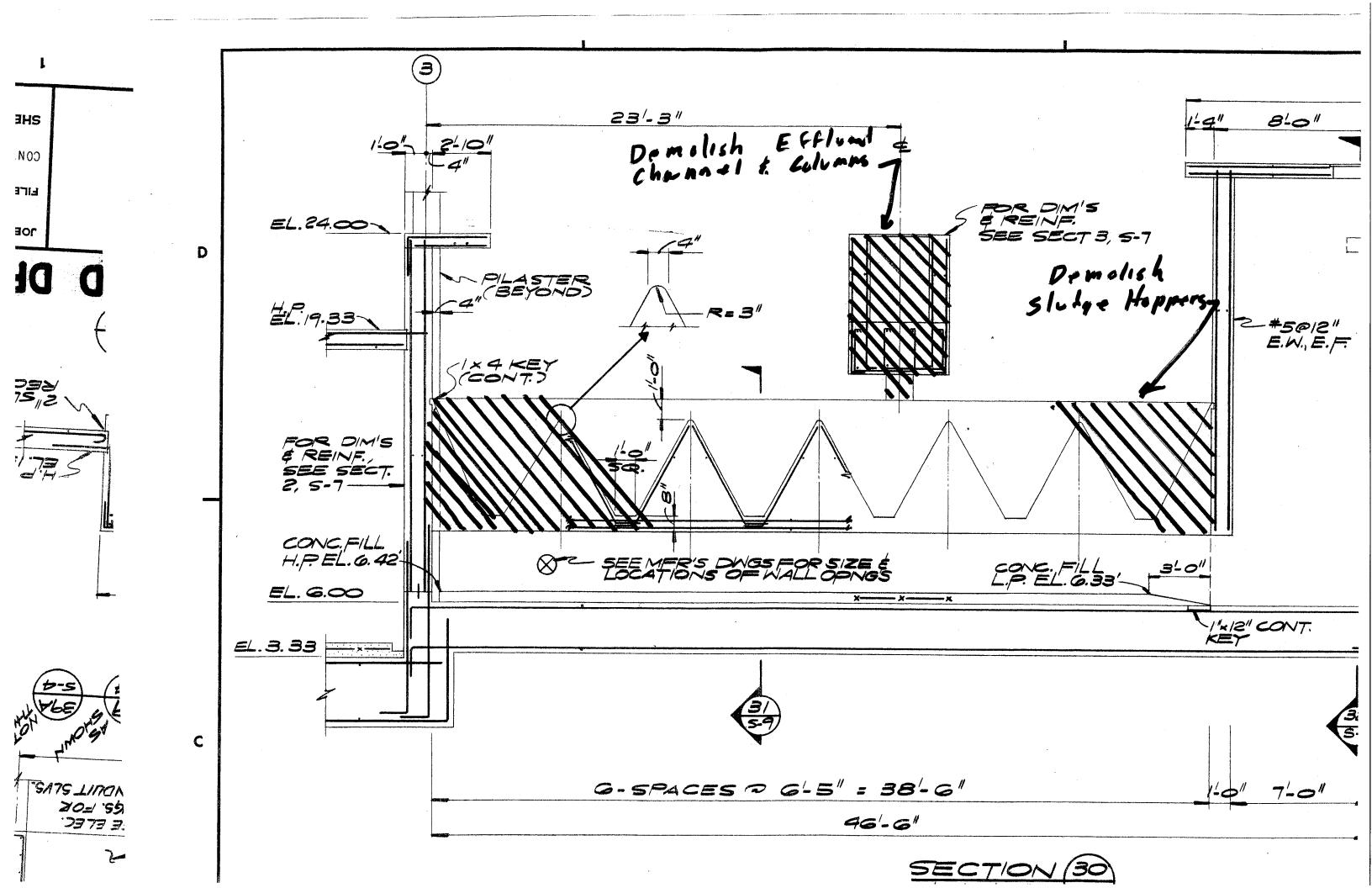
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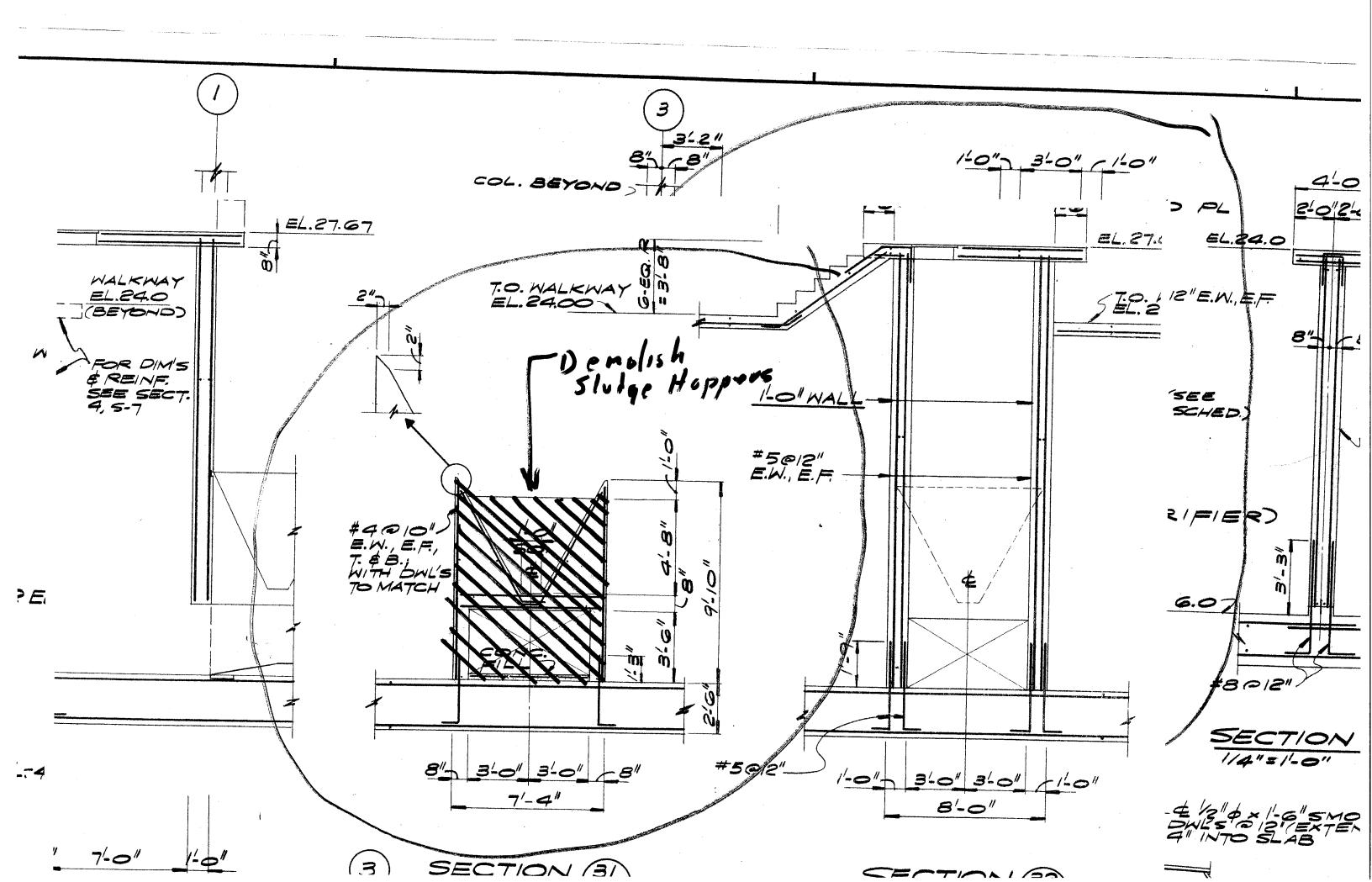


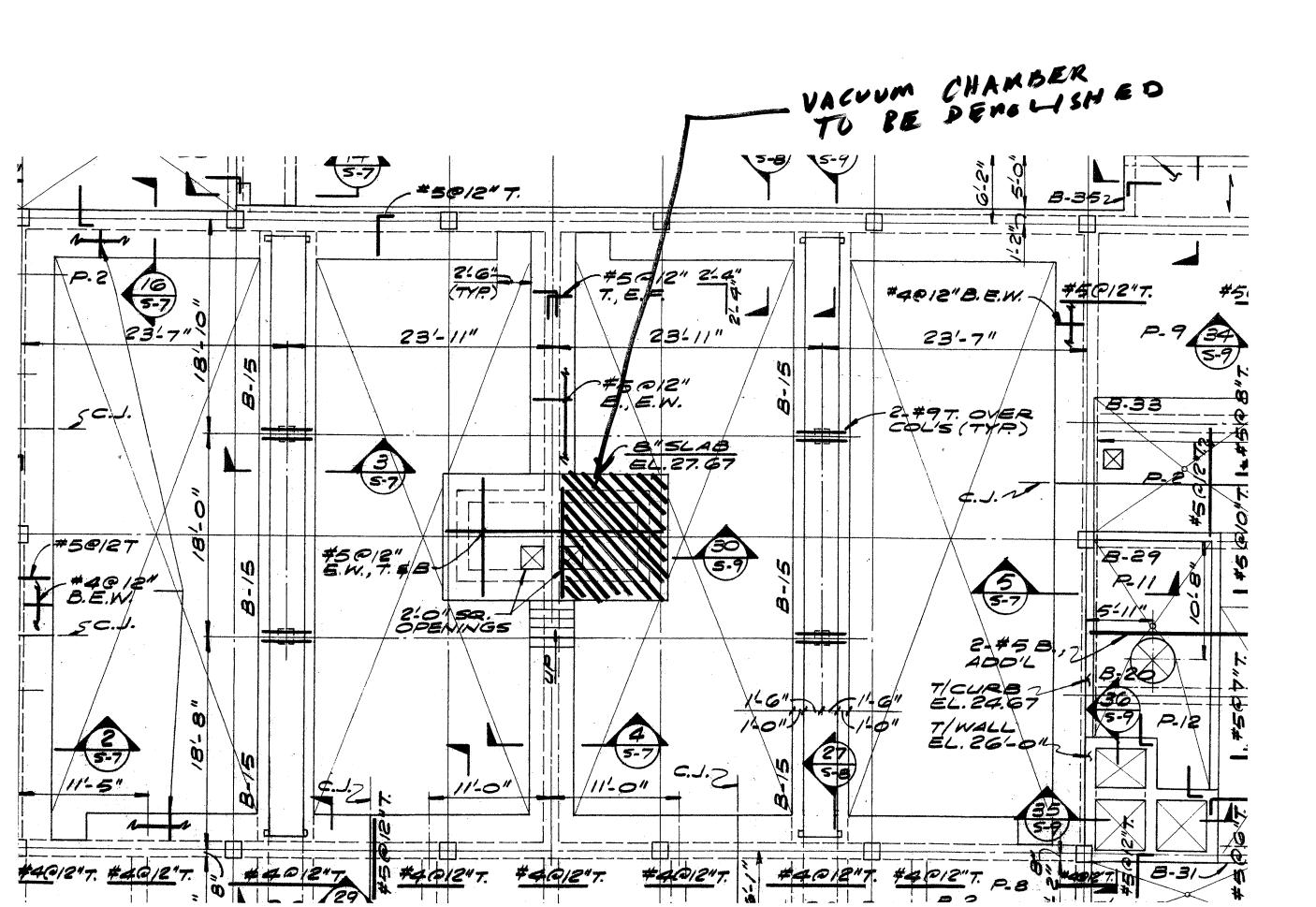
ALTERNATIVE 2 PLAD QMGD DAN MU EXOSTING CLARIFIER 1 SEE ALTERNATIVE 1 For Unit DIMENSIONS













City of Newport, Rhode Island Department of Utilities

City Advisor for Project Delivery of Water Treatment Plant Improvements Project 08-028 Task 3.1 – Review of Demands and Supply

August 2009

Technical Memorandum



Technical Memorandum

То:	Julia Forgue, P.E., Director of Utilities
From:	Carol Rego and Jeff Diercks
Date:	May 1, 2009 (Finalized August 6, 2009)
Subject:	Task 3.1 – Water Supply and Demands

1 - Purpose of Memorandum

The purpose of this memorandum is to develop water demand projections for the Newport Water Division (NWD) service area, as a basis for establishing the design capacities of the two water treatment plants (WTPs). The projections are to be based on a 5-year and 20-year planning horizon. The 5-year horizon corresponds approximately to the Consent Order date of December 31, 2014, for having the two WTPs on-line.

Although other projections have been performed as recently as 2008, it was decided this project should include a more detailed water demand review. This was deemed appropriate in view of the significant financial ramifications of the design capacity decisions.

CDM's original intent was for this memorandum to include specific recommendations for the design capacities of the two WTPs. It has become evident, however, that this should not be done until after detailed consideration of treatment process changes at Station No. 1. These process evaluations will determine the cost-effectiveness of increasing this plant's capacity within its existing footprint. We expect this to be a major factor in capacity selection. Therefore, this memorandum presents demand projections, then concludes with a review of various factors that will be considered when establishing the final design capacities. Once the Station No. 1 process evaluation is completed, the design capacities will be assigned and presented in a separate memorandum.

This final memorandum supersedes the prior draft version dated May 1, 2009. The primary modification following submission of the draft version was the incorporation of water demand projections prepared by Naval Station Newport for their facilities. The Navy's projections superseded placeholder projections prepared by CDM in the draft memorandum.

2 - Available Federal and State Population Information

The U.S. Census Bureau's decennial census provides population data for the three Aquidneck Island communities. The Census Bureau has also prepared annual population estimates for

the communities since 2000. In 2004, the Rhode Island Statewide Planning Program prepared population projections for all communities in the state. These projections extend to the year 2030.

Table 1 (note – all tables are at the end of this section) summarizes the census data, estimates, and projections for each of the three communities and for the island as a whole. For Aquidneck Island as a whole, the State's projections called for essentially no increase in population over the period 2000-2030. Specifically, the cited increase from the 2000 census population of 60,958 was 206 persons, to a population of 61,164 in 2030. This is an increase of merely 0.3% over the 30-year period. The projected change in population was, however, not distributed equally among the three communities. Portsmouth was projected to grow significantly, with the population increasing by more than 2,600 persons during the 30-year period. Middletown's situation appeared static, with only a 97-person increase over the period. Newport was shown as losing more than 2,500 persons during the period.

This information is also discussed later herein when we review the municipal planners' comments.

3 - Supply Source Yield

The most recent evaluation of NWD's supply source yield is that presented in the "Reservoirs Safe Yield Study", dated March 2009, prepared by Wright-Pierce of Providence, RI. The study included a description of the supply source system, a review of historical droughts, documentation of the methods of analysis and the input data, and a description of the yields of each reservoir and of the system as a whole.

The key results of the safe yield evaluation, including contributions from all reservoirs, are listed below:

<u>Climatic Event</u>	<u>Reservoir Yield</u> (million gallons per day, mgd)
Drought of Record (1964-66)	9.40
20-Year Drought	10.48
Average Conditions	14.60

Later in this memorandum, reservoir yield will be compared to the projected water demand.

4 - Historical Water Data

NWD maintains its water production and water demand statistics in a number of different databases. Five are described herein, and summary tables are attached for each.

The <u>total water treatment plant effluent</u> is tracked in an Excel spreadsheet, which contains data starting with June 1997. Daily data from both WTPs are recorded. Table 2 is a summary of this information, listing the annual totals for 1998-2008, the average day, and the maximum day. We understand that the information from 2006 to date is considered more reliable due to improvements in metering procedures. The "total water treatment plant effluent" statistic includes most of the plant water use.

For calendar years 2007 and 2008, the total WTP effluent was very similar, slightly under 7.2 mgd.

The **water produced available for sale (WPAFS)** statistic is available starting July 2006. The WPAFS spreadsheet tracks monthly values and is organized by fiscal year (July through June). Plant water use is excluded from these values.

Table 3 summarizes the monthly WPAFS records from July 2006 through December 2008, listing totals by both fiscal year and calendar year. For calendar years 2007 and 2008, the WPAFS was virtually identical, at about 6.9 mgd.

Comparing the WPAFS figures to the total WTP effluent, we see that WPAFS represents 96.0% and 95.7% of the total WTP effluent in 2007 and 2008, respectively. Values of 4-5% are reasonable figures for plant water use.

Newport also tracks the <u>metered consumption of its retail customers</u> located in Newport and Middletown. The metered consumption is divided into three usage categories: residential, commercial, and governmental. Table 4 lists the information for the three most recent fiscal years. Table 4 also lists the sales to the two wholesale customers discussed below, and compares the total metered sales to the WPAFS statistic for FY2007 and FY2008. The resulting "unmetered water" figure is 20-22% for those two years.

Note that, although this memo will generally refer to retail customers as being in Newport and Middletown, the data also include a very small number of retail customers located in the southwestern corner of Portsmouth.

NWD tracks its daily metered <u>water sold to Portsmouth Water & Fire District</u>, and provided CDM with Excel spreadsheets organized by calendar year from 2006 to date. Table 5 summarizes this information on a monthly basis for 2006 through 2008. The annual averages are listed below:

<u>Calendar Year</u>	Annual Average <u>Sale to PWFD (mgd)</u>
2006	1.161
2007	1.294
2008	1.253

NWD provided CDM with an Excel spreadsheet of the <u>water sold to Naval Station Newport</u> (NSN) from July 2003 through June 2008. Each meter is separately listed, and totaled by month. The information is organized by fiscal year. In Table 6, CDM has summarized this information, and listed totals by both fiscal year and calendar year. The data demonstrate a clear and significant downward trend, as summarized below:

Fiscal Year	Annual Average <u>Sale to NSN (mgd)</u>	Adjusted Value (mgd)
2004	1.374	1.374
2005	1.148	1.148
2006	1.023	1.023
2007	0.763	0.798
2008	0.677	0.708

Historically, NSN purchased all its water from NWD. However, in September 2006, the Navy began a temporary, emergency purchase from PWFD for the Navy's Melville area. This purchase continues today, but is expected to conclude in December 2009 when the Navy completes upgrades to its water system facilities in the Melville area. The water which NSN purchases from PWFD ultimately originates from NWD. The "Adjusted Value" column above adds this purchase (which averages a little over 0.03 mgd), thereby indicating in FY2007 and FY2008 the total Navy water usage. The data on NSN's purchase from PWFD was taken from PWFD's response to NWD's questions in the ongoing rate case (PUC Docket No. 4025).

The 2008 NSN water use is only 52% of that in 2004. Additional discussion on the downward trend appears elsewhere herein.

5 - Discussions with Wholesale Customers

NWD requested its two wholesale customers to provide their own water demand projections and related information to CDM. NWD convened a meeting with both customers (PWFD and NSN) on February 12, 2009, to discuss these issues. A Meeting Summary describing the discussions is presented in Appendix A.

PWFD's water demand projections were furnished to NWD in late 2008 and were very slightly updated in April 2009. Their projections are as follows:

Planning Year	<u>Average Day (mgd)</u>	<u>Maximum Day (mgd)</u>
5-Year Horizon (2013)	1.45	2.61
20-Year Horizon (2028)	1.64	2.95

Additional information beyond that included in Appendix A was received from both PWFD and NSN following the February 12 meeting. The nature of the additional information is summarized below.

Portsmouth Water & Fire District

PWFD provided their 2004 Water Supply System Management Plan (WSSMP) and 2007 WSSMP update, and their water distribution system map. In addition, PWFD transmitted detailed spreadsheets addressing PWFD's historical demand data, number of customers, daily sales to the Navy since September 2006, unmetered and unaccounted-for water, and the basis of their projections.

It should be noted that NWD's statistics for sales to PWFD are not exactly the same as PWFD's statistics for water demand. PWFD's water demand statistics take into account the change in storage of their tanks. This means that, if some of the water purchased in a given day by PWFD fills a tank to a higher level, then that particular volume of water will not be counted in PWFD's record of that day's customer demand. Also, even though the same meter reading signal is used by both utilities for tracking the metered purchase/sale, there are small differences in the recording instruments which can affect the records as well. Further, the two utilities may use different times-of-day in their recordkeeping, when calculating the flow over a 24-hour period. (PWFD uses 7:45 am as the start of their recordkeeping day.)

PWFD prepared its projections as follows:

1. The year 2000 was selected as a base year, because PWFD's gallons-per-customer usage was the highest in 2000 (77,327 gallons) that it has been since 1994.

- 2. PWFD performed a regression analysis on its demand data from the period 1994-2008, and assigned a trend line for average day projections. The average day demand from 2000 into the future was calculated on this basis. Because this trend is linear, the projection for years other than the two years provided by PWFD can readily be obtained.
- 3. PWFD reviewed their maximum day peaking factors (i.e., the ratios of maximum day to average day demands) for the period 1994-2008, and determined that the average peaking factor was 1.80. PWFD utilized this peaking factor for their projected maximum day demands.

Note that the "years" in the foregoing discussion are PWFD's fiscal years, which end on April 30. Inherent in PWFD's projection methodology is an assumption that future growth in customers will occur at about the same rate as in the past. PWFD intentionally excluded from its projections any consideration of future development of the Navy's surplus property and of potential wastewater treatment plant development.

Naval Station Newport

NSN offered the following additional remarks:

- The Navy has several ongoing initiatives to improve its water conservation and demand management. These include continued installation of low-flow water fixtures, returning as much steam condensate as possible to reduce boiler makeup water, and designing all new construction projects to meet LEED requirements.
- The Navy performs comprehensive leak detection surveys on its water system at least every 2-3 years, and repairs identified leaks.

In an email dated July 20, 2009, NSN transmitted water demand projections for its facilities. This email and associated data tables are included in Appendix C. NSN recommended an average day demand projection of 0.90 mgd for both the 5-year and 20-year planning horizons. They also recommended a maximum day demand projection of 1.40 mgd for that same period.

6 - Discussions with Municipal Planners

On March 11, 2009, CDM met with each of the three municipal planners for the three Aquidneck Island communities. The planners offered comments on federal and state population data, reviewing potential changes in zoning, discussed various factors affecting development in both the near-term and far-term, and provided information about various planned developments.

A meeting summary, including all information provided by the planners, is presented in Appendix B.

We offer the following overview of the information provided about upcoming trends from the three communities:

Portsmouth

- The Town Planner does not agree with the Census estimates showing a slight decline since the 2000 Census, but believes instead that the overall population is static.
- He generally concurs with the State projections, which call for a 15% increase in population (more than 2,600 persons) from 2000 to 2030. He notes, however, that those projections assume there will be no wastewater collection and treatment system in Portsmouth. If such a system is constructed, there will be additional development and population increase.
- He believes that, ultimately, a wastewater system will likely be constructed on the West Side, but that similar proposals for a system in the North End will not be successful.
- The surplus Navy property (Tank Farms 1-4) has significant potential for commercial and/or mixed-use development, and there are numerous other potential developments in Portsmouth as documented in Appendix B. The surplus Navy property will not, however, be occupied within the 5-year planning horizon.

Middletown

- The Town Planner does not agree with the Census estimates showing a decline of over 1,000 persons since the 2000 Census. A stable population is more likely.
- The State projections are essentially static, at an increase of merely 92 persons over the 25-year period of 2005 to 2030. The Town Planner believes the actual figures may be slightly greater, but agrees in general with a very-slow-growth scenario. There is minimal subdivision activity and only limited commercial development activity.
- There seems to be no interest by any developers or municipal entities in paying for extending the public water system farther into the eastern portion of the town, where there is more developable land than on the west side. Even in the one recent situation where a subdivision immediately adjacent to the public water system was being constructed, the developer determined it was less expensive to install private wells instead of extending the public water main, and proceeded on that basis.

Newport

- The City's Director of Planning does not concur with the Census estimates for the period since 2000. He believes that when the 2010 Census becomes available, it will show very little change over the decade, or perhaps a slight increase.
- He discounts the State projections which show a significant decline in population to the year 2030. He indicates that Newport has bottomed out in terms of any population decline, and should be essentially stable for some years to come. In the 2020-2030 timeframe, he anticipates an increase in population due to Newport's desirability for retirees. He suggests the 2010-2030 increase in Newport's population may be on the order of 1,000, excluding Navy personnel.
- Newport currently has significant redevelopment activity ongoing, as demonstrated by the fact that FY2008 brought the City its highest permit revenues ever. He anticipates this level of activity will continue for a number of years, as demonstrated on the project list included in Appendix B.

7 - Water Demand Projections - Average Day

The water demand of the NWD service territory can be divided into the following five categories, which will be considered separately:

Metered sales to PWFD (largest wholesale customer) Metered sales to NSN (other wholesale customer) Potential future metered sales in Navy surplus property Metered sales to retail customers in Newport and Middletown Unmetered water

Strictly speaking, the 5-year and 20-year planning horizons should be set at 2014 and 2029. Nevertheless, it is common practice to project parameters of various sorts to target years that are multiples of five, so we have adjusted these years herein to 2015 and 2030. The 5-year horizon thus represents the first full year that both WTPs are expected to be on-line, and the 20-year horizon corresponds with the State's population projection horizon.

For some of the following discussion, CDM assigned values for the future average day water use of various types of developments. No water demand estimates were directly available for any future developments, and in most cases the size and nature of the development has not been established. Our assigned water demand values were based where possible on the following parameters:

Type of Use	Parameter	Data Source
Office	75 gpd/1000 sf	MassDEP septic system regulations*
Retail	50 gpd/1000 sf	MassDEP septic system regulations*
Marina	25 gpd/boat	RI septic system regulations
Residential units	2 persons/unit 65 gpcd	(CDM assumption) (CDM assumption)

*RI values are not available.

When the use of a potential building was indicated by a Planner simply as "commercial" or as mixed commercial and retail use, we utilized the "office" parameter above. Those parameters listed above which are from state septic system regulations are based on peak water use. To convert those to average use, we utilized half of the listed figures.

Metered Sales to PWFD

If we adjust PWFD's average day demand projections to the years 2015 and 2030, the values are 1.48 mgd and 1.67 mgd, respectively. These values compare to NWD's FY2008 sale to PWFD of 1.26 mgd, excluding PWFD's sales to the Navy. Although the 2015 figure represents a significant (17%) increase over 2008, and although development is slowed during the current recession, examination of the information provided by the Town Planner makes it clear that Portsmouth has the potential for substantial additional development in the near future.

The Planner provided a list of major new developments that are now planned to occur over the next decade. If we exclude the Navy surplus property, and retain the Planner's figure of 50% of the concept development as an estimate of the ultimate development, then the listed developments total the following:

Condos/townhouses:	659 units
Multi-family buildings:	54 buildings
Single-family residences:	132 units
Retail & restaurants:	60,000 sf
Other commercial buildings:	28,540 sf
Marina:	748 boatslips

These developments would represent an average day water demand of about 0.13 mgd, using the assumptions cited earlier.

Many of the residential units actually are high-value properties that may function as second residences and not be occupied on a continuous basis, thereby leading to less water demand than under usual circumstances. On the other hand, it is possible that some developments could ultimately exceed the 50% assumption cited above. Unquestionably, there is substantial additional land beyond the lands for the listed developments on which additional development could occur. The Planner's list included only "major" developments, and it is to be expected that other development not on the list will occur. The Planner's 2008 "What's Left?" study, which estimated the number of buildable lots in Portsmouth under current zoning if all larger parcels were eventually developed, determined that there were over 2,600 buildable lots remaining in town.

It may well be that the PWFD projection is "conservative", especially in the sense that the ongoing recession may slow down the pace of development such that the projection proves to be higher than the actuality. Nevertheless, CDM believes the projection is reasonable in the light of Portsmouth's overall situation, and in the light of the purposes of NWD's project. Therefore, this memorandum includes the PWFD projection in the overall demand projections.

We note that it is unlikely that PWFD will achieve major reductions in its unmetered and unaccounted-for water percentages in the future, because those values are already low. In FY2007 and FY2008, PWFD had unmetered water of 9.9% and 9.6%, respectively. PWFD then calculated its unaccounted-for water by subtracting estimates of water used in flushing, blowoffs, new main construction, fire department use, tank overflow/maintenance, and meter testing. The resulting unaccounted-for water was 8.8% (FY2007) and 8.7% (FY2008). PWFD already calibrates its master source meter annually, performs an annual leak detection and repair program, and has established a consumer meter replacement program with the goal of keeping all meters under 22 years of age. Therefore, PWFD is already addressing the three primary typical sources of unaccounted-for water. We have not adjusted PWFD's demand projection for these types of issues.

We also have considered the possibility of development of a wastewater treatment plant (WWTP) in Portsmouth. The Town Planner's opinion is that Portsmouth will eventually have a WWTP on the West Side, though not one serving the North End. He provided a map (included in Appendix B) showing the likely area for initial and later connections to a West Side WWTP. Examination of the map shows that most of the area to be connected is represented by the Navy surplus property and the major new developments cited above.

WWTP operation will not occur within the 5-year planning horizon, but is a possibility for the 20-year horizon. Qualitatively, one would expect WWTP construction to affect water demands in its service area as follows:

- 1. There are some properties that currently experience septic system problems, and thus have reduced their water use to minimize their watewater disposal issues. In such properties, one would expect an increase in water demand once a WWTP and collection system is constructed.
- 2. Most properties are not currently experiencing wastewater disposal problems. These properties will see a significant increase in their monthly bills from the new sewer utility charges. Water demand at these properties may decline somewhat, as customers adjust their water use habits in response to the higher costs.
- 3. There will be additional development pressures within the WWTP service area, particularly in areas that previously could not accommodate on-site wastewater disposal. The degree of development that might result from this factor cannot readily be projected.

On the whole, CDM believes it is likely that WWTP construction, if it were to occur in the 20year planning horizon, would not significantly alter the water demands projected herein, given that so much of the area proposed to be sewered has already been accounted for elsewhere in these projections. We have elected not to increase PWFD's demand projection in this memorandum for this factor. If it were preferred instead to include such an increase, we believe that the effect should be kept small, 0.1 mgd or less, given the planned service area. This can be kept in mind when the WTP design capacities are set.

Metered Sales to NSN

As noted earlier, the average day demand projection prepared by Naval Station Newport is 0.90 mgd. This value applies to both the 5-year and 20-year planning horizons.

Navy Surplus Property

Based on discussions with the municipal planners, the Navy surplus properties are not likely to be occupied within the 5-year planning horizon. Therefore, no 2015 water demand will be included for these properties. Within the 20-year planning horizon, however, it is expected that all these properties will be occupied.

To derive a 2030 water demand estimate for the Tank Farms, Melville Backyard, and former Navy Hospital, we used the Planners' figures for potential commercial building sizes on these parcels. No data were available for the small (3-acre) Navy Lodge site in Middletown, so CDM assumed a value. Using the "office" water use parameter above, the average day water demand for the Navy surplus properties would be 90,000 gpd, or 0.09 mgd.

As noted by the Portsmouth Planner, it is possible there could be as many as 100-150 residences eventually constructed in the Tank Farms properties, partially supplanting the commercial development figures above. Residential units may utilize water at a higher rate than commercial development, so rounding the above-listed estimate up appears appropriate. A value of 0.1 mgd was carried for the 20-year horizon.

Retail Sales in Newport and Middletown

As shown on Table 4, the FY2008 metered sales to retail customers was 1,287.6 million gallons, which is an average day demand of 3.52 mgd.

CDM has adopted the Planners' recommendations that population has not decreased since 2000 and will not decrease in the future, despite the Census estimates and State projections. The Newport Planner suggested a population increase on the order of 1,000 in the period 2010-2030. Given the limited development potential in Middletown, we utilized the figure of 1,000 persons as representing the population change between now and 2030 for the entire area of retail sales. As compared to the 2000 Census, this would represent a 2.3% increase in the Newport/Middletown population. Assuming the same overall per-capita demand, the water demand would also increase 2.3% over that period. This would represent an additional 0.08 mgd, above the current usage.

Given the Newport Planner's comments about redevelopment of commercial properties in Newport, we believe it is reasonable to use a higher overall increase in water demand than 2.3%. The developments which he listed for the next decade would be expected to have a water usage of about 0.05 mgd. We have assumed the same would be true for the second decade in the planning period.

Thus the total increase in usage would be 0.18 mgd. We assumed one-fourth of that would occur by the 5-year planning horizon, and the remaining three-fourths by the 20-year horizon.

On that basis, the metered retail sales are projected as 3.57 mgd for the 5-year horizon, and 3.70 mgd for the 20-year horizon.

The foregoing assumes that there is no significant expansion of the water system into the currently-unserved area of Middletown. In view of the Town Planner's comments regarding this issue, this seems to be the most-likely future scenario. Nevertheless, the possibility that an additional portion of Middletown could eventually be served can be considered when setting WTP design capacities.

Unmetered Water

As shown on Table 4, NWD's unmetered water percentage was 21.8% in FY2007, and 20.0% in FY2008.

NWD has a goal of reducing unmetered water to 15% or less. For the sake of considering future water use, CDM will present future average day demands using a range of assumptions for unmetered water. We will assume for the lower-bound figure that NWD is successful in reducing its unmetered water to 15%, and assume for the upper-bound figure that unmetered water stays at 20%.

Summary of Average Day Demand Projections

Summarizing the foregoing, the average day water demand projection for NWD is as follows:

<u>Component</u>	<u>5-Year Horizon</u> (2015)	<u>20-Year Horizon</u> (2030)
Sales to PWFD	1.48	1.67
Sales to NSN	0.90	0.90
Allowance for Navy surplus land	0.00	0.10
Retail sales, Newport/Middletown	3.57	3.70
Unmetered water (20%)	<u>1.49</u>	<u>1.59</u>
TOTAL	7.44 mgd	7.96 mgd
TOTAL (if 15% unmetered water)	7.00	7.50

8 - Water Demand Projections, Maximum Day

Water treatment plant design capacities must ultimately be based on the maximum day demand, not the average day demand, to assure satisfactory service. Therefore, CDM has developed maximum day demand projections from the above-listed average day demands. We recommend that the maximum day demand projection be determined by selecting an overall-system peaking factor to be applied to the average day demand projections.

Other methodologies are possible. For example, one could attempt to assign peaking factors for each of the five categories of average day demand described above. However, simply adding such results to obtain an overall system maximum day demand would be overconservative, because it is unlikely that each of the five components will experience its maximum day demand on the same date. For example, examination of the Navy's monthly demands shows that February has often been a very high-demand month, but that is not true for the rest of the customer base.

Table 2 shows the overall-system maximum day peaking factors for recent years. NWD has reported that the information starting in 2006 is the most reliable. In that period, the highest peaking factor was 1.77, in 2008. Even if the prior data back to 1998 were considered, 2008 would still have the highest peaking factor, though two other years were also above 1.70. We note for reference that NWD, in its 2007 WSSMP update, stated that it utilized a peaking

factor of 1.68 for its projections. We also note for reference that PWFD is utilizing a peaking factor of 1.80 for its projections, which represents their average peaking factor rather than a high-end peaking factor.

The purpose of this memorandum is to establish a basis for the WTP design capacities. Since the WTPs need to be able to produce sufficient water even on high-end maximum demand days, we recommend utilizing the 2008 peaking factor of 1.77 for projections. Given that the previously-utilized value of 1.68 has been surpassed, and given that 2008 was not an unusually dry year (dry years tend to have higher peaking factors), it appears that using a higher value than 1.68 is warranted.

The 5-year and 20-year forecast recommended in this memorandum can then be summarized as follows:

Planning Year	<u>Average Day (mgd)</u>	<u>Maximum Day (mgd)</u>
5-Year Horizon (2015)	7.00-7.44	12.4-13.2
20-Year Horizon (2030)	7.50-7.96	13.3-14.1

The ranges shown are based on the assumed range of 15-to-20% in future unmetered water.

As discussed below, the selection of the WTP design capacities can include consideration of the possibility that future demands could vary somewhat from these figures.

9 - Factors That Could Modify These Future Demands

During the planning horizon of this project, there are many factors that could cause the actual water demands to vary from the projections. The year-to-year variations in climate are of course one such factor. This section of the memorandum lists a number of others, some of which are specific to the Aquidneck Island communities.

Factors That Could Cause Lower Demands

CDM believes that the upper-end projections are "conservative", in the sense that they contain a reasonable bias toward making sure the figures will be sufficiently-large for selecting WTP design capacities. A conservative approach is common in water system planning, due to the desire among water system owners and engineers to be sure that there is not a need for another improvements project only a few years after the completion of a major WTP program. Therefore, there are a number of factors that could cause lower demands to be realized in the future. Several are noted below:

 The current recession could continue longer than anticipated, resulting in less development activity and lower demands for some years to come.

- PWFD could elect to proceed with a bedrock wellfield or other alternate water supply source, thereby reducing its dependence upon NWD for drinking water.
- Water conservation and demand management practices to be employed in water systems, in residences, in businesses, and at Naval Station Newport, could continue to evolve, thereby resulting in even greater savings in water usage than has already occurred in the past 10-20 years.
- The construction of a WWTP in Portsmouth, or the desirability of Newport to increased numbers of retirees in the period 2020-2030, might not materialize.
- Rate increases, such as those needed to pay for the WTP improvements, can cause consumers to reduce their demands for a period of time after each increase.

Factors That Could Cause Higher Demands

There are also some scenarios in which the demand projections could prove to be too low:

- One or more significant water-using industries could relocate to, or be developed on, Aquidneck Island.
- Due to circumstances affecting the United States and our Armed Forces, Naval Station Newport could need to increase its operations beyond the currently-foreseeable amount.
- A widespread issue affecting private well groundwater quality in eastern Middletown could be discovered, providing impetus for water system expansion into this area.
- WWTP construction could occur sooner than anticipated, and result in somewhat greater increases in demand within the 20-year planning horizon than discussed herein.
- Development, especially in Portsmouth, or the desirability of Newport to the retirement community and/or tourist trade, could exceed expectations.

Issues such as the foregoing can be qualitatively taken into account as the WTP design capacities are established.

10 - Comparison to Safe Yield

In accordance with the procedures of the Rhode Island Water Resources Board (RIWRB), the "available water" should be compared to the projected average day demand. Although the "Reservoirs Safe Yield Study" did not use the term "available water", we have assumed for the purpose of this memorandum that the study's "safe yield" is identical to the "available water".

As noted earlier in this memorandum, the safe yield of NWD's reservoirs during a repeat of the drought of record is 9.40 mgd. The high end of CDM's projected range of average day demand is 7.96 mgd. The safe yield of the reservoirs is thus well in excess of the projected average demand.

NWD's supply sources should therefore be considered to be of adequate quantity, for the planning period of this project.

11 - Upcoming Selection of WTP Design Capacities

The selection of WTP design capacity is affected by the water demand projections developed in this memorandum, by the potential variances from those projections discussed above, by assumptions to be made regarding future plant water use, and by the degree of redundancy desired to be available in the WTPs. Redundancy is beneficial in the event of a supply source disruption affecting one plant, or in the event of any far-future operational problems at one plant that cause reductions in its output during high-demand periods. In addition, as discussed at the beginning of this memorandum, the feasibility and cost-effectiveness of process capacity increase within the existing footprint of Station No. 1 needs to be assessed before assigning the final design capacities.

As noted earlier, the WTP design capacities will be based in part on the projected maximum day demand, not the projected average day demand. CDM recommends using the higher 2030 demand projection (i.e., the one based on 20% unmetered water) in setting the WTP design capacities. We also have assumed a future plant water use of 5%. On this basis, the WTPs would need to have a combined capacity equal to at least 14.8 mgd. In view of the various factors that could possibly increase demands, we recommend using a figure no less than 15 mgd.

Following completion of the process review at Station No. 1, the design capacity of each WTP will be selected and presented in a separate memorandum.

cc: Jack Keaney, CDM Pat Gallagher, CDM Kathy Mello, CDM John Willis, CDM

						Aquidneck
			<u>Middletown</u>	<u>Newport</u>	<u>Portsmouth</u>	Island Total
	U.S. Census]
TS	1950		7,382	37,564	6,578	51,524
	1960		12,675	47,049	8,251	67,975
	1970		29,290	34,562	12,521	76,373
COUNTS	1980		17,216	29,259	14,257	60,732
8	1990		19,460	28,227	16,857	64,544
	2000		17,334	26,475	17,149	60,958
	2000	Avg. Household	2.43	2.11	2.53	2.32
	2000	Avg. Family	3.01	2.86	3.00	2.94
_						
		Population Estima				
IES	7/1/2001		17,289	26,343	17,242	60,874
	7/1/2002		17,285	26,218	17,353	60,856
ESTIMATES	7/1/2003		17,207	25,969	17,410	60,586
L	7/1/2004		16,986	25,605	17,261	59,852
Ш	7/1/2005		16,697	24,648	17,090	58,435
	7/1/2006		16,419	25,644	16,999	59,062
	7/1/2007		16,259	25,359	17,030	58,648
		le Planning Progra				
NS	2005		17,350	26,086	17,553	60,989
E	2010		17,364	25,763	17,889	61,016
JEC	2015		17,385	25,278	18,392	61,055
PROJECTIONS	2020		17,408	24,737	18,954	61,099
	2025		17,427	24,275	19,434	61,136
	2030		17,442	23,937	19,785	61,164

TABLE 1FEDERAL AND STATE POPULATION DATA

TABLE 2
TOTAL WATER TREATMENT PLANT EFFLUENT, 1998-2008

Calendar	Total WTP	Average Day	Max	imum Day Dema	nd
<u>Year</u>	<u>Effluent</u>	in MGD	MGD	<u>Date</u>	<u>Ratio</u>
1998	2,384,901,000	6.534	9.63	8/10/1998	1.47
1999	2,708,565,000	7.421	12.68	8/5/1999	1.71
2000	2,619,357,000	7.157	11.63	7/14/2000	1.63
2001	2,698,791,000	7.394	11.46	6/28/2001	1.55
2002	2,629,855,000	7.205	12.55	7/19/2002	1.74
2003	2,668,281,000	7.310	10.60	7/18/2003	1.45
2004	2,813,286,000	7.687	10.57	7/9/2004	1.38
2005	2,725,273,000	7.467	12.10	8/12/2005	1.62
2006	2,514,430,000	6.889	9.95	8/14/2006	1.44
2007	2,626,296,000	7.195	10.97	8/4/2007	1.52
2008	2,619,375,000	7.157	12.64	7/18/2008	1.77

Notes:

1. "MGD" = million gallons per day.

2. Data are from City's "Annual Summary" worksheet, included in its daily WTP production record workbook.

3. The "Total WTP Effluent" includes some (though not all) plant water use, and is distinct from the City's "Water Produced Available for Sale (WPAFS)" statistic in Table 3 which does not include any plant water use. In 2008, the WPAFS represented 95.7% of the "Total WTP Effluent". In 2007, WPAFS was 96.0% of "Total WTP Effluent".

TABLE 3 WATER PRODUCED AVAILABLE FOR SALE (WPAFS)

	Water Produced Availa	ble for Sale
<u>Month</u>	Gallons	MGD
wonth	Guilons	
Jul 2006	237,059,600	7.65
Aug 2006	254,970,300	8.22
Sep 2006	208,115,000	6.94
Oct 2006	204,216,400	6.59
Nov 2006	179,439,400	5.98
Dec 2006	174,450,700	5.63
6-month total	1,258,251,400	6.84
Jan 2007	182,597,700	5.89
Feb 2007	169,937,500	6.07
Mar 2007	188,676,300	6.09
Apr 2007	193,637,100	6.45
May 2007	215,481,700	6.95
Jun 2007	232,392,700	7.75
6-month total	1,182,723,000	6.53
Total FY 2007	2,440,974,400	6.69
Jul 2007	268,896,000	8.67
Aug 2007	263,969,000	8.52
Sep 2007	240,073,000	8.00
Oct 2007	210,517,000	6.79
Nov 2007	175,924,000	5.86
Dec 2007	179,861,000	5.80
6-month total	1,339,240,000	7.28
Total CY 2007	2,521,963,000	6.91
Jan 2008	188,705,500	6.09
Feb 2008	163,235,000	5.63
Mar 2008	177,567,900	5.73
Apr 2008	190,030,700	6.33
May 2008	208,274,500	6.72
Jun 2008	240,923,700	8.03
6-month total	1,168,737,300	6.42
Total FY 2008	2,507,977,300	6.85
Jul 2008	293,024,700	9.45
Aug 2008	259,727,500	8.38
Sep 2008	221,207,800	7.37
Oct 2008	211,153,400	6.81
Nov 2008	187,276,800	6.24
Dec 2008	185,556,000	5.99
6-month total	1,357,946,200	7.38
Total CY 2008	2,526,683,500	6.90

Abbreviations:

MGD = million gallons per day

FY = fiscal year

CY = calendar year

TABLE 4METERED CONSUMPTION IN MILLION GALLONS

							Total		Unmete	ered Water
	Retail	<u>Customers in N</u>	ewport & Middlet	<u>cown</u>	Wholesale	<u>Customers</u>	<u>Metered</u>	WPAFS	<u>Amount</u>	Percentage
Fiscal Year	<u>Residential</u>	<u>Commercial</u>	Governmental	<u>Subtotal</u>	<u>PWFD</u>	<u>NSN</u>				
2006	749.4	472.2	21.4	1,243.0	N/A	373.3	N/A	N/A	N/A	N/A
2007	734.9	429.8	25.9	1,190.6	443.7	278.4	1,912.7	2,441.0	528.2	21.6%
2008	777.9	486.1	23.6	1,287.6	472.1	247.7	2,007.4	2,508.0	500.6	20.0%

Note: There are also a very small number of retail customers in southwestern Portsmouth, which are included in the figures above.

TABLE 5 MONTHLY WATER SALES TO PORTSMOUTH WATER & FIRE DISTRICT

	Water Sales	to PWFD	Maximum	Day Demand
<u>Month</u>	MG	MGD	Amount	Date
Jan 2006	31.494	1.016		
Feb 2006	27.491	0.982		
Mar 2006	30.088	0.971		
Apr 2006	31.872	1.062		
May 2006	34.284	1.106		
Jun 2006	36.800	1.227		
Jul 2006	44.226	1.427		
Aug 2006	48.664	1.570		
Sep 2006	37.806	1.260		
Oct 2006	37.340	1.205		
Nov 2006	32.197	1.073		
Dec 2006	31.725	1.023		
CY2006	423.987	1.162	2.083	8/1/2006
Jan 207	32.095	1.035		
Feb 2007	28.215	1.008		
Mar 2007	30.086	0.971		
Apr 2007	31.756	1.059		
May 2007	39.771	1.283		
Jun 2007	49.846	1.662		
FY2007	443.727	1.216		
FY2007 minus Navy:	431.063	1.181		
Jul 2007	55.976	1.806		
Aug 2007	56.136	1.811		
Sep 2007	47.208	1.574		
Oct 2007	40.645	1.311		
Nov 2007	29.688	0.990		
Dec 2007	30.738	0.992		
CY2007	472.160	1.294	2.522	6/27/2007
Jan 2008	28.856	0.931		
Feb 2008	28.803	0.993		
Mar 2008	30.152	0.973		
Apr 2008	33.735	1.125		
May 2008	38.370	1.238		
Jun 2008	51.777	1.726		
FY2008	472.084	1.290		
FY2008 minus Navy:	460.635	1.259		
Jul 2008	62.444	2.014		
Aug 2008	46.883	1.512		
Sep 2008	37.343	1.245		
Oct 2008	38.318	1.236		
Nov 2008	30.808	1.027		
Dec 2008	31.153	1.005		
CY2008	458.642	1.253	2.615	7/19/2008

TABLE 6 CITY RECORDS OF NAVY'S WATER USAGE, FY 2004 - CY 2008

Non-General (1997-100) 2,484,000 19/2,000 2,240,000 0 0 5,899,000 0 0 1,442,000 10/4 Non-General (1997) 1,784,000 2,700,000 2,700,000 10,442,000 0 0 2,485,000 0,722 Non-General (1997) 3,819,000 17,784,000 2,000 0 7,778,000 0 0 2,485,000 0,722 Non-General (1997) 3,819,000 17,778,000 0 0 3,819,000 1,778,000 0 3,819,000 1,778,000 0 3,819,000 1,778,000 0 3,819,000 1,788,000 1,788,000 1,778,000 0 3,819,000 1,728,000 0 0 3,819,000 1,728,000 0 0 3,819,000 1,728,000 0 0 3,819,000 1,728,000 0 0 3,819,000 1,728,000 1,728,000 0 0 3,819,000 1,728,000 1,728,000 1,728,000 1,728,000 1,728,000 1,728,000 1,728,000 1,728,000 1,728,00		Meters:										Monthly	Usage	Annual Usag	je
Basel and Basel and Bas	Period	B089-01200	B089-01300	B089-01400	B089-01500	B089-01700	B089-01800	B089-01804	B089-01900	B089-01901	B089-01902	Gallons	MGD	Gallons	MGD
Description T. Col. Allow 1.338,000 1.788,000 2.468,000 0 0.848,000 0 0 0.848,000 0 0.848,000 0 0 0.848,000 0 0 0.848,000 0 0 0.848,000 0 0 0.848,000 0 0 0.848,000 0 0 0.848,000 0 0 0.848,000 0 0 0.848,000 0 0 0 0.848,000 0 0 0 0.848,000 0 0	2003-07		8,607,200					0		0	-				
Bartisonol Bartisonol Bartisonol Bartisonol Bartisonol District Transmission District Transmission District Transmission District Transmission District Transmission District District Transmission District Distrit Distrit District<	2003-08	8,621,300	0	1,749,000	84,000	2,120,000	607,000	0	10,145,000	0	0	23,326,300	0.752		
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	2008-11				0	1,178,670		2,000			4,394,340	17,949,709	0.598	CY 2008:	
	2008-12	2,497,600	5,300,000	712,000	0	2,564,890	440,780	3,000	1,948,258	97,660	2,843,000	16,407,188	0.529	234,508,619	0.641

Meter locations:

B089-01200 West Main Rd at Chases Lane B089-01300 Green Lane B089-01400 Ft Adams B089-01500 Melville B089-01700 West Main Rd Anchorage B089-01800 Third St Naval Hospital B089-01804 Third St. B089-01900 Training Station Rd. N Train Stn B089-01901 Training Station Rd. Cloyne Ct B089-01902 Maple Ave Bowlers Gate 4 Additional purchase by Navy from PWFD:

12,644,000 0.035 FY2007 11,449,000 0.031 FY2008 Source: PWFD answer to NWD, Docket 4025 (Note: FY07 figure provided by NSN did not agree.)

Appendices

- A. Summary of Meeting with Wholesale Customers
- B. Summary of Meetings with City and Town Planners
- C. Water Demand Projection from Naval Station Newport

Appendix A Summary of Meeting with Wholesale Customers



Meeting Summary

То:	Julia Forgue, P.E., Director of Utilities
From:	Carol Rego and Jeff Diercks
Date:	February 18, 2009
Subject:	Meeting with Portsmouth Water & Fire District and Naval Station Newport – Task 3.1, Review of Demands and Supply

On Thursday, February 12, 2009, the Newport Water Division convened a meeting at the Station No. 1 Water Treatment Plant with its two wholesale customers to discuss aspects of the City Advisor project. The two wholesale customers are Naval Station Newport and the Portsmouth Water & Fire District (PWFD).

Purpose of Meeting

The primary purpose of the meeting was to review Task 3.1 of the City Advisor project, which includes preparing water demand projections and comparing those projections to the available supply source yield. The ultimate goal of Task 3.1 is to establish design capacities for the two water treatment plants.

The meeting was intended to advise the two wholesale customers of Newport's need for information about their future water demands. The meeting attendees included:

- <u>Newport</u>: Julia Forgue*
- <u>Navy</u>: Joanne Galuska, Jim Carlson*, Jeremy Jones
- <u>PWFD</u>: Bill McGlinn*, Phil Driscoll
- <u>CDM</u>: Carol Rego, Jeff Diercks*

*Primary contact on water demand issues.

The Attendance List and Agenda Handout are attached. The major discussion items are presented below.

Discussion at Meeting

Introduction

Julia began with an overview of the City Advisor project as a whole, referring to the handout's schedule chart, which lists the various tasks. The overall schedule goal of the program is to have water treatment plant improvements done by the end of 2014, per the

City's Consent Agreement on compliance with disinfection byproduct regulations. Carol briefly discussed the scope of Task 3.1, indicating that Newport wished to obtain the best projections possible from the wholesale customers themselves.

Jeff then reviewed each of the agenda items for the two wholesale customers, to learn more about issues with each customer that affect their water demands and to identify needed information. He indicated that, in a consistent manner with prior studies, this study would eventually adopt demand projections on a 5-year and 20-year timeframe (2014 and 2029).

Portsmouth Water & Fire District

Bill McGlinn indicated that PWFD serves the entire Town, except for the few customers who receive water directly from Newport and a few customers with private wells. A count of the number of private wells is not available, but Bill thought it was less than 200. Water system expansions are not funded by the District, but by interested developers. The major streets all have PWFD water mains, but as areas in-between are developed, developers may fund new water mains in those areas.

PWFD obtains all of its water from Newport. In past years, PWFD obtained some water from the Stone Bridge Fire District (SBFD). PWFD does not regard SBFD as a significant potential supply source for PWFD's future needs because their supply is limited, but PWFD maintains an emergency interconnection with SBFD. PWFD did perform some studies of potential surface water supply about 20 years ago, and has had been conducting a bedrock well feasibility study though it is currently on hold. It is not expected that bedrock wells, even if they were demonstrated to be feasible, would totally replace the Newport supply. PWFD has thought about desalination also.

Bill asked about the results of Newport's safe yield study. Julia reviewed some of the basic conclusions regarding yield. The results of the study include the following:

- Drought of Record (1964-66) Yield is 9.39 mgd
- 20-Year Recurrence Drought Yield is 10.66 mgd
- Average Conditions Yield is 14.71 mgd

She said the study is still in draft form and not yet ready for public release.

Jeff indicated that it appeared a 5-year projection of PWFD demand should assume that 100% of PWFD's water would still be coming from Newport, because of the long duration needed to study, permit, design and construct alternative water supplies. Bill agreed that was reasonable, but that it is not possible to project what PWFD's stance toward alternative supply sources might be in the 20-year timeframe. This will depend in part upon the quantity and quality of water available from Newport.

Bill reviewed various water conservation and demand management measures practiced by PWFD including the following:

- The master meter with Newport is calibrated twice per year.
- Unaccounted-for water is under 10%.
- A full-system leak detection survey is performed every year. The District is considering a program of using in-field leak correlators (M-logs) that transmit leakage information by radio in the near future.
- PWFD has reviewed the economic feasibility of consumer meter replacement, and has adopted a goal of having a maximum meter age of 21 years. PWFD is nearing the end of a 10-year program to achieve that goal. The District will consider transitioning to an AMR (automatic meter reading) system in the next five years.
- PWFD monitors the pumpage and storage levels daily.
- PWFD does not necessarily adopt summer water use restrictions such as outdoor watering controls, but considers doing this when the demands rise to 1.8-2.0 million gallons per day (mgd). The pumping capacity is 2.5 mgd.

Normally, PWFD does not sell water to the Navy. There has, however, been a temporary sale from PWFD to the Navy since September 2006 that will conclude around September 2009. The amount is about 12 million gallons per year.

Jeff asked if CDM could obtain a PWFD water system map and the latest Water Supply System Management Plan (WSSMP). Bill said yes, and that the WSMMP will be updated in May 2010. Jeff asked for background information on the basis of the projection Bill provided to Newport in November 2008. Bill said he would provide that. He indicated he had not worked directly with the Town Planner on that update, but that PWFD instead believes a review of trends in customer tie-ins is best for projections. He reported there is concern in Portsmouth regarding the accuracy of the 2000 federal census and state projections.

Phil and Bill discussed the possibility of a future wastewater treatment plant and sewers in Portsmouth. Jeff mentioned a newspaper article from mid-January about this issue. Phil said he was on a Committee examining this issue and reported that the current Town Council is very much against having sewers. There is much concern that sewers would open up more land for development. RIDEM would like sewers built in the Portsmouth Island Park area because of pollution there. It is expected that various Navy properties will be released in 2011 and that environmental cleanup will be needed. The West Side Master Plan indicated that these areas may eventually be sewered. There was general agreement that the potential sewers and the potential WWTP in Portsmouth are not an issue within the 5-year planning horizon, but anything could happen within the 20-year horizon.

Bill suggested Bob Gilstein (Town Planner) and Tina Dolen (Executive Director, Aquidneck Island Planning Commission) as contacts about development in Portsmouth, including potential development on Navy land and its schedule. Ed Lopes is a contact if information is desired about a proposed O'Neill Properties marina development just south of the Navy's Melville Backyard property.

Naval Station Newport

Naval Station Newport derives all of its water supply from the Newport water system. There are ten active metered connections, and 14 connections total.

With respect to water conservation and demand management measures, Navy officials noted the following:

- The meters at the Newport connections are calibrated annually by the City. Meters are read monthly for billing purposes.
- The Navy's water system has about 170 consumer meters, including area meters in some parts of the base. The Navy has a program of updating and downsizing these meters, and calibrating some of their higher-usage meters. There is also a nationwide Navy program to meter all Naval housing.
- An estimate of unaccounted-for water was not available at the meeting, but Navy officials will provide this. A water audit (comparing purchase at the Newport meters to metered use) has not been performed for at least six months.
- A leak detection survey was performed in 2006, and another is scheduled for 2009. The Navy's goal is to perform such surveys every two years.
- The Navy feels it has an excess of water storage in its system. They perform an annual flushing of the system in the fall. This is not intended to address water age issues, but just to clean the pipelines.

Jeff noted that because there are no daily readings at the Navy's ten master meters, information about historical maximum day demand is not available. He said that the available information would allow calculation of a peak-month-to-average-day factor, and that an estimate of maximum day demand could be derived from that. Julia noted that a demand study would be done in the summer of 2009 as a requirement of the PUC settlement agreement.

Jim indicated the base was trending downward in consumption. The Navy housing in Middletown was down from 2,000 to 800. Further, recent federal Executive Orders for water conservation and reduction have replaced former Best Management Practices (BMPs) and are reducing water use. The Navy is increasing its use of condensate water for heating systems, reducing the need for makeup water from the public water system. A Honeywell Energy

Project will result in increased use of efficient plumbing fixtures such as low-flow flushometers, showerheads, and faucets.

Jim said there is an annual energy report which has information on Navy water use. He will request clearance to get us the portions of that report which address water use.

Jeff asked if it was possible to get an overview of the excessing process, by which the Navy declares property surplus and disposes of it. Joanne offered to get back to us on that.

The group looked at a map in the handout showing the properties that are recommended to be designated as excess. Jeff asked if there was existing water use on these parcels. Joanne said there was essentially none and that most of those parcels are now vacant.

Jeff mentioned a discrepancy between information about current base population in a mid-2008 presentation slide included in the handout (6,470) and in a November 2008 email to Newport (7,800). Joanne said she would check to get the correct figure, and the best available estimate of future base population. There is nothing else in the BRAC (Base Realignment and Closure) process that would significantly affect water demand, beyond the change in personnel numbers.

Information Requested

The information requested from PWFD was the following:

- Water system map
- Latest Water Supply System Management Plan
- Details on the basis of the November 2008 demand projection

The information requested from Naval Station Newport was the following:

- Existing and future base population
- Information on unaccounted-for water
- Information on water use from the annual energy report
- Background on the excessing process

Navy and District officials indicated this information could be provided within two weeks.

Attachments: Attendance List and Meeting Handout

CITY OF NEWPORT, RHODE ISLAND DEPARTMENT OF UTILITIES

CITY ADVISOR PROJECT MEETING February 12, 2009

ATTENDANCE LIST

Name and Affiliation

Phone/Email

683-2090 x 22×

(1

Joanne Galuska Plut, Noval Station Newport _ 841 - 3842 jasnne.galuska @navy.mil

BILL MULLINN

PHIL DRISCOLL PUFD

CAROL REGO, CDM

NAF Diercles, CDM

James Carlson PUD Navy Napont

VEREMY JONES NAVEAL MIDLANT UEM

617-452-6566 REGOCA@CDM.COM

63-222-8335 diercksjea

841 -7626 Junes. Ficartsin 10 navy mil

845-5600 Josque Ocitzofnerport.

757-445-8558 × 318 jeremy. b. jones 1@ navy. mil

CITY OF NEWPORT, RHODE ISLAND DEPARTMENT OF UTILITIES

CITY ADVISOR PROJECT MEETING February 12, 2009

Agenda

- 1. Introductions, and Purpose of Meeting
- 2. Scope of Task 3.1 Review of Demands and Supply
- 3. Portsmouth Water & Fire District
 - a. Area served; planned water system expansions; growth policies
 - b. Future source status
 - c. Current & future water conservation and demand management activities
 - d. Basis of prior demand projection (Nov. 2008)
- 4. Naval Station Newport
 - a. Connections to municipal mains, and metering arrangements
 - b. Current & future water conservation and demand management activities
 - c. Master Plan 2008
 - d. "Excess property"
 - i. Status of "excess property": Tank Farms 1-4, Melville Backyard, former Navy Hospital, former Navy Lodge.
 - ii. Types of potential development on excess property; development controls
 - e. Changes planned on "retained" lands
- 5. Discussion of WWTP in Portsmouth
- 6. Remaining information needed
- 7. Next Steps, and Schedule
 - a. Meetings with Planning Departments in Newport, Middletown, Portsmouth
 - b. Other

Exhibit B Amendment No. 1 Professional Services as City Advisor for Water Utility Strategic Options and Delivery of Water Treatment Facilities, Project 08-028

Project Schedule

		2009																											
		Jan			Feb)	1	Ма	ar		A	or		Ма	y		June	9	,	July	A	ug	Sej	pt	Oct		Vov	De	C)
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2.1 Comparison of Life Cycle Costs																													
2.2 Update Financial Projections																													
2.3 Develop Financing Plan																													
2.4 Develop Master Loan Documents																													
2.5 Support PUC Approval Process																													
2.6 Institutional Support																													
2.7 Fin Plan Implementation																													
2.8 Support New Water Sale Contracts																													
Phase	3 - Ei	ngine	eeri	ng Si	tudi	ies a	and	Тес	hnic	cal F	Proje	ect D)eve	lopm	nent	Requ	iiren	nent	S										
3.1 Demands/Supply/Plant Capacity																													
3.2 LVWTP Siting Study and Engineering																													
3.3 Station No.1 Improvements Engineering Investigation																													
3.4 Permitting																													
3.5 Analysis of WQ Data; Technology Screening; Pilot Testing																													
3.6 Project Definition, Quality and Performance (RFP Vol III)																													
3.7 Pipe Loop Testing																													
3.8 Conceptual Cost Estimate																													
3.9 Prepare QA/QC Program																													
3.10 Project Management and Schedule																													
	Р	hase	- 4	Des	ign-	Bui	ld P	roci	uren	nen	t Do	cum	ents	and	Proc	cess													
4.1 Request for Qualifications																													
4.2 Conduct RFQ Process																													
4.3 Prepare RFP Volume I																													
4.4 Support Draft DB Contract																													
4.5 Conduct RFP Process										T																			
4.6 Support DB Contract Negotiations																													
4.7 Coordinate Procurement Team																													
4.8 Prepare Risk Register																													

Tasks shown in bold are fully or partly authorized by Amendment 1. Schedule is based on January 16, 2009 start date.

Portsmouth Water and Fire District

1944 East Main Road P.O. Box 99 Portsmouth, Rhode Island 02871-0099

> (401) 683-2090 Fax (401) 682-1550

E E-mail: info@portsmouthwater.org NOV

November 19, 2008

Director of Utilities City of Newport, RI

Kenneth Mason, P.E. Deputy Director of Utilities 70 Halsey Street Newport, RI 02840

Re: Newport Water Department Safe Yield Study

Dear Mr. Mason:

Per your telcon request we have projected the District's 5-year and 20-year demand, based on historical data, for use in your safe yield study. The projected District demand is as follows:

YEAR	AVERAGE DAY (MGD)	MAX DAY (MGD)
2013 (5 Year)	1.43	2.58
2028 (20 Year)	1.62	2.92

If you have any questions on the above or require any additional information, please do not hesitate to contact me.

Sincerely, PORTSMOUTH WATER AND FIRE DISTRICT

William J. McGlinn, P.E. General Manager and Chief Engineer WJM/wjm

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Mason, Kenneth

From:	Monaco, William O CIV NAVFAC MIDLANT [william.monaco@navy.mil]
Sent:	Tuesday, November 18, 2008 3:39 PM
То:	Mason, Kenneth; Carlson, James F CIV NAVFAC MIDLANT, NWPT
Cc:	Davis, Michelle L CIV NAVFAC MIDLANT
Subject:	FW: 5 and 20 year projections

Ken I can give you rough numbers for population growth for the near future. Our current population, from our water permit, is about 7800. Because of BRAC there will be some people coming and going and it is estimated that in the next 5 years the population will be increasing about 20% from our current numbers. Therefore increasing to a population of about 9660. I'm sorry I don't have anything for 20 years out.

Jim if you have a better feel of the water usage for 5 and 20 years out please provide to Ken.

Thanks Woody

William Monaco, PE Civil Engineer / Planning Naval Station Newport 401-841-7618 William.Monaco@navy.mil

----Original Message-----From: Mason, Kenneth [mailto:kmason@CityofNewport.com] Sent: Tuesday, November 18, 2008 14:56 To: Monaco, William O CIV NAVFAC MIDLANT Subject: 5 and 20 year projections

Hi Woody,

Was wondering if you had a chance to see if the Navy has a 5 and 20 year projection for water usage on the base? If not for water usage, I could use a population projection. Just trying to finish up our reservoir safe yield analysis and future population growth is a pretty big factor in forecasting ahead.

1

Thanks for your help,

Ken

Kenneth R. Mason PE Deputy Utilities Director-Engineering City of Newport 70 Halsey Street Newport RI 02840 401-845-5614







Recommended Property Disposition

Area	Acreage	EVS Recommendation
Melville Backyard	35	Excess
Tank Farm 1	49	Excess
Tank Farm 2	96	Excess
Tank Farm 3	41	Excess
Tank Farm 4	83	Excess
Defense Highway (north of NUWC)	67	Excess
Former Navy Lodge	3	Excess
Former Navy Hospital*	10	Excess
Tank Farm 5 and Firefighter Training Area	72	Retain
Carr Point Recreation Area	29	Retain
McAllister Landfill	11	Retain
Gould Island	13	Retain
Family Housing Areas	301	Retain
Total Excess	384	
Total Retain	426	

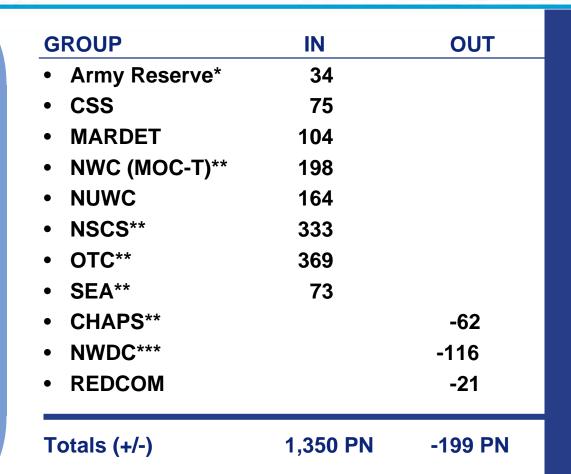
*Three of the total 10 acres are beneath the water surface

Source: Recommendations from Executive Visioning Session, Washington Navy Yard. June 2007.

Acreages derived from GIS mapping provided to EDAW by NAVSTA Public Works Dept.

Note: Tank Farms 3 and 4 are proposed for excess with the exception that approximately 30 acres may be retained for renewable energy projects.

Population Changes (BRAC & Non-BRAC)



- * Does not include weekend reservists
- ** Includes Average-on-Board Student Loading

*** NWDC has a significant contractor population. Actual loading lost is approximately 260 personnel.

Existing Base Loading 6,470

> Additional Personnel 1,150

Future (2011) Total 7,620 Appendix B Summary of Meetings with City and Town Planners



Meeting Summary

То:	Julia Forgue, P.E., Director of Utilities
From:	Carol Rego and Jeff Diercks
Date:	March 26, 2009
Subject:	<i>Meetings with City/Town Planners</i> Task 3.1, Review of Demands and Supply

On Wednesday, March 11, 2009, Jeff Diercks of CDM met separately with each of the three City/Town Planners to discuss issues related to population and water demand projections. The purpose of these meetings was to solicit the opinions of the Planners about:

- Historical population data and existing State population projections for their communities
- Current and anticipated future development trends in their communities

Prior to the meetings, CDM sent each planner a copy of Table 1 (attached) which lists the historical and projected populations for the three municipalities on Aquidneck Island, and also a suggested agenda for the discussion. The agenda for one discussion is attached as a representative example.

Portsmouth

CDM met with Mr. Robert W. Gilstein at Town Hall (2200 East Main Road, Portsmouth, RI 02871). Mr. Gilstein is the Town Planner. His phone number is 401-683-0888, and his email address is <u>rgilstein@portsmouthri.com</u>.

Census and State Information

The U.S. Census 2000 population count was 17,149. The Census' annual estimates since that time have varied up and down somewhat but can be characterized overall as steady. Mr. Gilstein noted that the school population has decreased in the last few years, and that new home construction is definitely down in the past 2-3 years. He provided a list of building permits in the 1993-2008 period (attached) which clearly shows this. He indicated he had no way of contesting the 2000 Census, and does not feel there has been a population decline since then. There is no annual Town census, and no other population projection information.

He does not have an issue with the State projections, but notes that they assume that there will be no wastewater collection and treatment system in Portsmouth. If instead such a system is eventually constructed, then he would expect some additional infill development beyond what would otherwise occur, and the resultant population would be somewhat higher.

It is not clear whether the State's projections handled the Navy population in the same way as the U.S. Census or in a different manner. The person to talk to at the State to determine their procedures would be Mark Brown, 401-222-6183, <u>mbrown@doa.ri.gov</u>.

Navy Surplus Property

Mr. Gilstein provided an update to the information in the West Side Master Plan (WSMP) regarding the eventual re-use of the four Tank Farms and the Melville Backyard. The attached table shows the current estimates of developable areas and building size.

A key question is whether residential development will be included in the re-use plan. Tank Farms 1 and 2 are the most likely to be pursued. The upper part of the tank farms may be suitable for residential development or residential/mixed use development. At Tank Farm 4, there is significant concern about prior site use (underground storage tanks) but underground conditions are currently unknown as no testing has been done yet. The USTs were as much as 30 feet deep and were imploded by the Navy. It is possible the upper part of Tank Farm 4 will prove to be usable.

The Town is not particularly interested in additional residential development, with the possible exception of high-end development for second homes which does not place much burden on Town services. But the Town recognizes the need for workforce housing, such as for the boatbuilding enterprises in Melville. Mr. Gilstein suggested that there could be as many as 100-150 residential units total in the surplus property area. None of these will exist in CDM's 5-year planning horizon, but probably all of them will in the 20-year horizon.

Portsmouth intends to do a targeted market analysis within a year for these Navy properties. He noted that they could double the commercial land use in the Melville area.

Wastewater Planning

The WSMP showed a potential wastewater treatment plant (WWTP) on the Tank Farm 3 property. Today, the leading candidate for WWTP site is the nearby Raytheon Property. Raytheon already has an outfall for their WWTP.

Mr. Gilstein had just received a copy of the wastewater master plan. He provided a copy of some sewer flow estimates prepared in 2007 for that project (attached), which ranged from 1.53 to 1.88 mgd on a maximum day basis, excluding infiltration/inflow. He indicated he would provide a map showing the area of the Town included in those estimates. (This was

received on March 25 and is attached.) He mentioned the controversy around the WWTP project because of the concern about increasing growth.

He offered his "guess" that the Town would ultimately, reluctantly, decide a WWTP is needed on the west side. He expects that a similar proposal that has been considered for the North End would not succeed.

He will send us a projection of development in the North End assuming sewering succeeded. (This was received March 25 and is attached.) But the preliminary numbers from 1.5 years ago indicated costs that were considered by many to be "outrageous". The State has been pushing for sewering here because of marine pollution in the area, but their data are showing improved conditions, which works against the argument for a WWTP.

Other Development

There is no rezoning in the works that would significantly affect development trends.

Mr. Gilstein provided a list of planned major developments in Portsmouth, and supplemented it with additional information the next day (see attachments).

In 2008, Mr. Gilstein did a "What's Left?" study for other potential developable lands in Portsmouth. The intent was to show how many buildable lots there may be under current zoning if all larger parcels were eventually developed. The results are attached.

He also mentioned the proposed "Little Town Center" development just down the street from Town Hall, and said he would mail the buildout analysis of this area. Currently the area consists of vacant land and defunct buildings. He mentioned that originally Portsmouth was just a farm town with no defined town center. In 1960 the town was still 75% farms. It only developed and began to get a town center once the bridges were built.

Conclusion

Mr. Gilstein said that he and the Town have "more than a general interest" in water and wastewater planning issues. The water supply planning issue is particularly critical to him right now as a new plan is being developed for the re-use of the Navy surplus property and there is concern about sufficient supply being available for the eventual re-use. The new plan is due to be completed in fifteen months and will, as needed, modify the approach presented in the West Side Master Plan.

He requested to be informed about the progress of the Newport project, and to receive a copy of the final deliverable on Task 3.1. He also would like to see the Safe Yield Study when it is finalized, and requested information on which State regulators would be reviewing that study.

Middletown

CDM met with Mr. Ronald M. Wolanski at Town Hall (350 East Main Road, Middletown, RI 02842). Mr. Wolanski is the Director of Planning and Economic Development. His phone number is 401-849-4027, and his email address is <u>rwolanski@middletownri.com</u>.

Census and State Information

Mr. Wolanski discussed the apparent 2,100-person decline in Middletown's population from 1990 to 2000. The Town discussed this at length with the Census Bureau. It turned out that the methodology of counting military personnel, which had been consistent for many decades, was changed for the 2000 Census. The duration for which such personnel have lived in a particular place now affects where they are considered to be residing, for Census enumeration purposes. Since no significant changes occurred in Middletown during the decade, and since the Town feels the population during that period was essentially stable, the 2,100-person decline has been attributed to this change in methodology.

Mr. Wolanski noted that the Census Bureau's estimates since 2000 show a continuing decline. He does not agree that this is actually happening. It may be an extrapolation of the apparent 1990-2000 trend.

The State projections are essentially static, with only a tiny (92-person) increase from 2005 to 2030. Mr. Wolanski said he believes the Town's situation going forward will be one of slow growth -- not a decline but not fast-growing either. He thinks the projected increase is a little low. He would expect that there may be on the order of two dozen new single-family residences going annually forward, but that the continuing decline in overall household size will partially offset the associated population growth.

He commented on the Navy's BRAC process, indicating that some small growth from that may occur in Middletown.

There is no annual Town census, and a buildout analysis has not been conducted.

Upcoming Development

There is little activity anticipated in Middletown, and no rezoning of any consequence is planned. There is always a trickle of one-to-two-lot subdivisions, but no significant subdivision developments. The following are the only two residential developments being pursued at this time:

 A 14-lot subdivision has been approved in an area off Bailey Avenue, bounded by Trout Drive to the north and Sachuest Drive to the south. This area is right on the line dividing the area of Middletown served by public water from the part that has no public water. The

developer gave some consideration to connecting to the Newport water mains but decided against it due to cost. Private wells are now planned.

 A 60-unit, age-55+ development has been approved off Forest Avenue. The area is bounded by the Forest Avenue School on the northeast, and Sundown Lane on the southwest. The development is connected to the public water system. About 6-10 units are built, but none have yet been occupied.

Mr. Wolanski noted that there is more developable land on the east side of town, where there is no water system. In the long run, there will be more residential development there, but this will not affect the water system.

Regarding commercial development, the largest project in motion is the Aquidneck Corporate Park. This area is located just east of Green End Pond, and appears in purple on the zoning map. Originally developed about 30 years ago, the corporate park is transitioning to a high tech/defense contracting area, and the Town wants more development here. The current buildings total about 650,000 square feet. Some are likely to come down and be rebuilt in the future. The Town's goal is to double-or-better the current square footage. Mr. Wolanski indicated, however, that he did not expect much of this to be occupied during CDM's 5-year planning horizon.

There are two other corporate parks in Middletown. They appear in blue on the zoning map, and are smaller than the Aquidneck Corporate Park. One is off the Gate 17 Access Road, and the other is adjacent to Town Hall. The Town desires some of the vacant land in these areas to be developed.

One large parcel of interest along West Main Road is the Rhode Island Nurseries parcel, which also abuts the Wanumetonomy Country Club. The landowner has no plans to sell or to change the land use at this time, but should that happen in the future the Town would like to see a mixed-use development in this area.

Along and east of the western edge of the area served by Newport water mains are many parcels which are now conserved. The zoning map labels some of them, such as the Sachuest Point National Wildlife Refuge and the Norman Bird Sanctuary. But there are other large parcels in this area, including various farms and vineyards, which are protected from future development.

Fire Chief's Interest in Water System Extension

The Middletown Fire Chief has expressed interest in expansion of the public water system into the currently-unserved area. The Chief is not enamored of the use of cisterns for fire protection, and has proposed extensions in particular areas where he would like to see hydrants. Mr. Wolanski indicated that, if there were a major extension project, this would go

before the Planning Board. There is some concern about whether water system extension would increase growth pressure, and it does not appear likely there will be water main extensions for this purpose in the near future.

Newport

CDM met with Mr. Paige R. Bronk at City Hall (43 Broadway, Newport, RI 02840). Mr. Bronk is the Director of Planning, Zoning, Development and Inspection. His phone number is 401-845-5450, and his email address is <u>pbronk@cityofnewport.com</u>.

Census and State Information

The 2000 U.S. Census showed a decline of over 1,700 persons in Newport. Newport did not contest this, because it was not considered a significant difference in terms of any implications for the City. Mr. Bronk pointed out that there are a substantial number of transients in Newport, plus many persons with second homes here, which complicates the count.

Mr. Bronk did not put much weight on the subsequent Census population estimates. He mentioned the 2008 data may be of better quality for communities like Newport which are under 30,000 in population, and should be available soon on the Census website. He believes that there will not be much change in the Census figures between 2000 and 2010 -- if anything, perhaps a slight increase.

He feels that Newport has bottomed out in terms of any population decline, and will hold its current population figures for some years to come. However, in the period from 10 to 20 years from now, he anticipates an uptick in population. The reason for this is that Newport is a very desirable location for retirees, who are expected to have a significant impact on the population. Mr. Bronk disagrees with the State's projections which show a steady decline in the period 2005-2030, for this reason. He suggested the increase during the 20-year planning horizon may be on the order of 1,000, not including the Navy population.

There is no annual census in Newport, and no significant rezoning anticipated with the exception of the North End of the City.

Development Trends

Newport still has a reasonable amount of development activity for a community of its size. For the fiscal year ending June 30, 2008, Newport had its highest permit revenue ever, due to the significant redevelopment activity. Among the prominent recent redevelopment projects have been various waterfront properties, including the Hyatt Hotel on Goat Island and an old ice house which is becoming a mixed-use facility. Newport has eight old elementary schools in the process of being converted to other uses (two completed, two in process, and four to go). One of the largest downtown buildings, the Post Office building at Thames Street and Memorial Boulevard, will soon be on the market. Another major project is the Bellevue

Gardens shopping center, a \$40 million mixed-use development with about 40 residential units plus small retail space.

Mr. Bronk considers the former Navy Hospital to be the "crown jewel" of the properties now under consideration. This is waterfront property within the City limits -- a great location with buildings in good condition. The City intends to acquire the property and work with a developer. This will not be completed within the City Advisor Project's 5-year planning horizon, but will be completed within the 20-year horizon.

There are a number of publicly-owned parcels which are being turned over for development. Several are near the Pell Bridge interchange, including the site to which the area's microbrewery (Coastal Extreme Brewing Company) will relocate from Middletown. Another example is the future home of the BankNewport headquarters adjacent to the CCRI campus on J.T. Connell Highway. In such cases, the City typically issues an RFP for a developer, and works to change zoning in the area to suit the needs of the project. For example, the Navy Hospital will be rezoned from residential to mixed-use development.

Mr. Bronk offered to send a list of various upcoming projects in Newport, and did so later that same day (email is attached).

Issues Regarding Demand Projections

Mr. Bronk expressed interest in water conservation issues and wondered how they would affect the demand projections. We discussed several aspects of water conservation and demand management programs, and how they may factor into the demand projections. This included the possibility of focusing conservation efforts in particular market sectors. Mr. Bronk thought that addressing how those in the tourist trade conserved water was particularly important, due to the prevalence of hotels, bed & breakfasts, and timeshares in Newport.

Mr. Bronk offered comments on two factors that argue in favor of being conservative in the demand projections – that is, in favor of building in a small contingency. One factor is Newport's historical record, which demonstrates significant population swings in both directions. The other is the tourist trade, which is a major driver for the economy. Upward movement in the average occupancy rate over time could significantly affect water use.

ATTACHMENTS

- Table 1, Federal and State Population Data
- Sample Agenda for Meetings with Planners
- Information Received from Mr. Gilstein, Portsmouth
 - o Table of Tank Farm Data
 - o Planned Major New Developments
 - o Building Permits, 1992-2006
 - West Side Flow Estimates
 - o 2008 "What's Left?" Study (3 pages)
 - Email from Mr. Gilstein, dated March 12
 - Email from Mr. Gilstein, dated March 25, including sewer service map and wastewater flows and loads (10 pages)
- Email from Mr. Bronk, Newport, dated March 11

TABLE 1	
FEDERAL AND STATE POPULATION DATA	

						Aquidneck
			<u>Middletown</u>	<u>Newport</u>	<u>Portsmouth</u>	Island Total
	U.S. Census					
	1950		7,382	37,564	6,578	51,524
	1960		12,675	47,049	8,251	67,975
S	1970		29,290	34,562	12,521	76,373
COUNTS	1980		17,216	29,259	14,257	60,732
Ō	1990		19,460	28,227	16,857	64,544
	2000		17,334	26,475	17,149	60,958
	2000	Avg. Household	2.43	2.11	2.53	2.32
	2000	Avg. Family	3.01	2.86	3.00	2.94
	U.S. Census F	Population Estima	ates			
	7/1/2001		17,289	26,343	17,242	60,874
ES.	7/1/2002		17,285	26,218	17,353	60,856
ESTIMATES	7/1/2003		17,207	25,969	17,410	60,586
Ę	7/1/2004		16,986	25,605	17,261	59,852
ES	7/1/2005		16,697	24,648	17,090	58,435
	7/1/2006		16,419	25,644	16,999	59,062
	7/1/2007		16,259	25,359	17,030	58,648
		e Planning Progra	am, 2004			
NS	2005		17,350	26,086	17,553	60,989
9	2010		17,364	25,763	17,889	61,016
PROJECTIONS	2015		17,385	25,278	18,392	61,055
ß	2020		17,408	24,737	18,954	61,099
P	2025		17,427	24,275	19,434	61,136
	2030		17,442	23,937	19,785	61,164

CITY OF NEWPORT, RHODE ISLAND CITY ADVISOR PROJECT REVIEW OF POPULATION AND WATER DEMAND PROJECTIONS

POTENTIAL DISCUSSION ITEMS TOWN OF PORTSMOUTH

- 1. Available Population Data
 - a. Comments/concerns on accuracy of 2000 Census and of subsequent Census population estimates? (See Table 1.)
 - b. Comments/concerns on the 2004 RI population projections?
 - c. Is there an annual Town Census?
 - d. Are there other available population projections?
- 2. Expected Navy Surplus Property in Portsmouth (Tank Farms 1-4, and Melville Backyard)
 - a. Current expectations regarding the type of development?
 - b. Possible timing of development?
 - c. Any other information that might be useful in estimating a future water demand for these properties?
- 3. Other major projects/developments in Portsmouth
 - a. Could we get a list of ongoing and potential developments in Portsmouth, with information on type, size (no. of residential units, area of commercial space, etc.), timing, and/or other information?
 - b. Are there any water demand projections that have already been prepared by developers for any such projects?
- 4. Thoughts on the potential Portsmouth Wastewater Treatment Plant, and impacts upon future development?
- 5. Any other information or thoughts on matters that may affect future water demands in Portsmouth?

	Tank	Tank	Tank	Tank
	Farm #1	Farm #2	Farm #3	Farm #4
Site Area	45 acres	93 acres	29 acres	94 acres
Non-Developable	8.5 ac.	15 ac.	12.5 ac.	14 ac.
Developable	36.5 ac.	78 ac.	16.5 ac.	80 ac.
Development 20%	318,000	679,500	143,750	697,000
Lot Coverage		SF	SF	SF
	Total	997,500		tank fiber
	TF 1 & 2	SF		MULUSION - UVASION

UP to 100 UNITS OF ADUSING (TOWNAWS STATE)

O'NEILL	- CARNEGIE H	EIGHTS AF	EA		TIMING	CURRENT STATUS
No.	3 bdrm units	90	tower		3 mos.	under construction
	3 bdrm units	24	townhouses		2 yrs.	
		114	- la compressione			
O'NEILL	- WEAVER CO	OVE				
		Full -in				master plan
		concept	Half			approved
No	1 bdrm units	383	192		2-10 yrs.	250
	2 bdrm units	383	192		2-10 yrs.	135
	3 bdrm units	165	83		2-10 yrs.	155
		40	20		2-10 yrs.	
	4 bdrm units al New Units:	971	486		2-10 yis.	385
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2	0%	2.12	70			
3	14%	141	70			
4	29%	141	70			
5	43%	141	70			
6	58%	141	70			
7	72%	141	70			
8	87%	141	70			
9	100% _	128 971	<u>64</u> 486			
rotail 8	& restaurants	120,000	60,000	SF	3-10 yrs.	
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3	Single Family				2-5 yrs.	
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Not including development of former Navy tank farms.

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68 1 5 5 1 8 0 5 5 1 1 8 1 0 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TOTALS	994	16	116	36	71	54	632	7104	8980	1190
82	AVE/YR.	68	1	8	0	5					
		Not Incl. 2007-08	8			8					
Commercial are primarily reproveding and new construction						82					
							Commercial	are primarily repove	ations not ne	w constructi	

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DONE FOR WWFP 2007

Attachment G: Summary of West Side Flow Estimates

Best Case	TR-16 Estimates - WWTF (gpd)	Maximum Day WWTF (gpd)	Max Day Sanitary Flow	ISDS Estimates - Collection System (gpd)	Peak Factor	Peak Hourly Flow - Collection System (gpd)
Expected to Initially Connect						
Abbey - Industrial / Arnold's Point	32,469			51,150	3	
Remainder of West Side	344,787			488,457	2	976,914
Intial Connection Total (gpd):	377,256	2.5	943,140	539,607	2	1,079,214
Expected to Connect within 20 Years						
Abbey - Industrial / Arnold's Point	7,084			12,000	4	48,000
Remainder of West Side	279,683		· · · · · · · · ·	307,083	2	614,165
20 Year Connection Total (gpd):	286,767	2.6	745,594	319,083	2	638,165
Total Expected to Connect						
Abbey - Industrial / Arnold's Point	39,553			63,150	3	
Remainder of West Side	624,470			795,540	2	
Total Expected to Connect (gpd):	664,023	2.3	1,527,253	858,690	2	1,717,379

Worst Case	TR-16 Estimates - WWTF (gpd)	Maximum Day WWTF (gpd)	Max Day Sanitary Flow	ISDS Estimates - Collection System (gpd)	Peak Factor	Peak Hourly Flow - Collection System (gpd)
Expected to Initially Connect						
Abbey - Industrial / Arnold's Point	32,469			51,150	3	153,450
Remainder of West Side	416,100			567,390	2	1,134,780
Intial Connection Total (gpd):	448,569	2.4	1,076,566	618,540	2	1,237,080
Expected to Connect within 20 Years		· · · · · · · · · · · · · · · · · · ·				
Abbey - Industrial / Arnold's Point	7,084			12,000	4	48,000
Remainder of West Side	397,610			414,570	2	829,140
20 Year Connection Total (gpd):	404,694	2.5	1,011,735	426,570	2	853,140
Total Expected to Connect						
Abbey - Industrial / Arnold's Point	39,553			63,150	3	189,450
Remainder of West Side	813,710			981,960	2	1,963,920
Total Expected to Connect (gpd):			1,877,179	1,045,110	2	2,090,220

Note: Due to the conceptual nature of the flow estimates, infiltration/inflow is not considered.

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PLAT / LOT	STREET NAME	TOTAL GIS ACRES	BUILDABLE GIS ACRES	E #OF BUILD	LE LOI
13.2	BOYDS LANE	20.32	19.96		
13.5	BOYDS LANE	3.70	3.70	R-20 6	
13.7	ANTHONY ROAD	2.75	2.68		
13.9	BOYDS LANE	128.94	47.82		
16 40	EVANS WAY	14.32	13.86		
22 10	MARE TERRACE	8.95	8.94		
23 18	TERMINAL ROAD	5.13	5.10		
23 19	BRISTOL FERRY ROAD	18.36	17.19		
23 3	BRISTOL FERRY ROAD	4.23	4.23		
27 33	WEST MAIN ROAD	4.30	3.72		
28 17	BRISTOL FERRY ROAD	37.55	19.88		
28 34A	BRIDGEVIEW WAY	3.61	3.61	R-20 6	
30.8	WEST MAIN ROAD	24.05	17.76		
30.94	ANSELMO DRIVE	9.35	4.78		
32.4	WEST MAIN ROAD	14.07	5.52		
33 14	WEST MAIN ROAD	3.88	3.88		
33 41	FREEBORN STREET	11.69	5.56	R-20 10	
33 47	EAST MAIN ROAD	12.11	5.77	R-20 10	
34 18	EAST MAIN ROAD	4.88	4.88		
35 12B	CHASE TERRACE	7.96	7.87		
36 10	IMMOKOLEE DRIVE	6.00	4.61		
38 10	HEDLEY STREET	36.94	26.10		
38 11C	WEST MAIN ROAD	4.55	4.55		
38.2	WEST MAIN ROAD	22.19	22.19		
38 35	HEDLEY STREET	10.06	2.11		
38.4	WEST MAIN ROAD	3.27	3.27		
38 4B	WEST MAIN ROAD	21.62	21.62		
4 292	MASSACHUSETTS BOU	4.99	4.51		
41 35	EAST MAIN ROAD	3.87	3.87		
44 46A	MIDDLE ROAD	16.46	16.46		
44 8A	WEST MAIN ROAD	35.86	34.31		
45 27	MIDDLE ROAD	3.66	3.66		
45 96	FAIRVIEW LANE	13.70	12.83		
48 35	MCCORRIE LANE	14.37	9.72		
51 17	MIDDLE ROAD	34.37	30.05	R-30 37	
51 259	STONEGATE DRIVE	7.70	1.66	R-30 2	
51 28A	RUSSET ROAD	12.03	11.56	R-20 21	
51 37	LOCUST AVENUE	19.38	8.05		
52 18	MIDDLE ROAD	11.72	11.72	R-20 21	
E7 10		616	6.16	R-20 11	

PLAT / LOT	STREET NAME	TOTAL GIS ACRES	BUILDABLE GIS ACRES		ZONE #OF BUILDABLE LOTS
52 23	MIDDLE ROAD	9.00	9.00	R-20	16
52 4A	MIDDLE ROAD	10.03	10.03	R-20	18
54 15	EAST MAIN ROAD	37.36	31.10	R-40	28
54 17	VANDERBILT LANE	11.23	11.23	R-40	10
54 18	VANDERBILT LANE	8.25	8.25	R-40	7
54 20A	EAST MAIN ROAD	3.23	2.72	R-20	5
56 16	LOCUST AVENUE	7.07	4.70	R-30	5
56 31	UNION STREET	93.83	93.79	R-30	115
56 62	UNION STREET	7.70	7.70	R-30	6
57 10	EAST MAIN ROAD	12.54	12.54	R-30	15
57 11	EAST MAIN ROAD	16.37	16.37	R-30	20
57 12	EAST MAIN ROAD	19.35	19.35	R-30	23
57 18	UNION STREET	17.54	15.43	R-30	19
57 19	UNION STREET	12.13	11.68	R-30	14
57 27	UNION STREET	28.85	26.53	R-30	32
57 30	MIDDLE ROAD	6.53	6.53	R-20	12
59.2	GLEN ROAD	16.30	14.04	R-30	17
59 22	GLEN ROAD	13.41	11.25	R-30	13
59 27	GLEN ROAD	10.76	8.73	R-30	10
59 28	GLEN ROAD	12.58	12.58	R-30	15
59 29	GLEN ROAD	10.29	7.18	R-30	8
595	GLEN ROAD	85.22	75.12	R-30	92
596	GLEN ROAD	9.70	4.39	R-30	5
603	JEPSON LANE	22.20	13.54	R-30	16
612	EAST MAIN ROAD	12.00	9.74	R-30	12
62 17	SANDY POINT AVENUE	12.68	7.30	R-40	9
62 186	GLEN FARM ROAD	8.31	8.31	R-40	7
62.6	GLEN FARM ROAD	37.76	23.30	R-60	14
63 12	MOITOZA LANE	39.72	39.25	R-30	48
63 15	EAST MAIN ROAD	7.61	7.61	R-30	6
63 20	MOITOZA LANE	6.32	6.32	R-30	7
63 21	MOITOZA LANE	5.63	5.63	R-30	6
63 4	EAST MAIN ROAD	12.77	12.77	R-30	15
64 14	PAQUINS LANE	19.51	19.51	R-30	24
64 28B	EAST MAIN ROAD	14.81	13.40	R-30	16
64 56	MALEE TERRACE	6.59	5.97	R-30	7
64 71	BRAMANS LANE	16.67	4.97	R-30	6
65 1	WAPPING ROAD	160.85	153.66	R-40	18
65 15	WAPPING ROAD	58.78	23.67	R-30	29
65 16	WAPPING ROAD	4.88	4.88	R-30	9

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PLAT / LOT	STREET NAME	TOTAL GIS ACRES	BUILDABLE GIS AURES	A ZUNE	BUILDABLE GIS ACRES ZONE #OF BUILDABLE LOIS
65 3	FARMLANDS DRIVE	12.41	12.41	R-40	11
65.4	GREENVALE LANE	49.59	46.39	R-40	42
65.5	GREENVALE LANE	11.52	11.52	R-40	10
65.6	GREENVALE LANE	14.63	14.43	R-40	13
657	WAPPING ROAD	17.04	17.04	R-40	15
66.21	MITCHELLS LANE	13.35	4.79	R-30	5
67 37	INDIAN AVENUE	9.00	9.00	R-40	ø
67 39	SWAN DRIVE	8.35	6.22	R-40	5
67 44	BRIARWOOD LANE	8.17	8.11	R-40	7
67 65A	WAPPING ROAD	7.48	7.48	R-40	9
67.66	WAPPING ROAD	8.79	7.55	R-40	9
67 66A	BRIARWOOD LANE	7.64	6.07	R-40	5
67 660	BRIARWOOD LANE	6.55	3.51	R-40	в
67 72	OLD MILL LANE	14.42	7.52	R-40	9
68 71	CORNELIUS DRIVE	15.31	10.38	R-40	6
81	ANTHONY ROAD	116.95	111.78	R-10	413
-					2191

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PLUS 731 SCATTORNT + EVILORDES VACANT + EVILORDES RES. ZONG LOTA

From: Sent: To: Subject: Robert W. Gilstein [rgilstein@portsmouthri.com] Thursday, March 12, 2009 1:51 PM Diercks, Jeffrey FW: Pending & Prospective developments - Portsmouth

Jeff,

This just received from the Administrative Officer of the Planning Bd. Bob Gilstein

(Albin is Woodmeister)

From: Glenn W. Russell Jr. Sent: Thursday, March 12, 2009 11:58 AM To: Robert W. Gilstein Subject: RE: Pending & Prospective developments

Bob

Albin should be twenty single family units vice 40 Carnegie <u>Harbor Village</u> should be: 90- Tower; 22 - Stand alone residences; 21 - Village; and 24 Townhouses (where sales office is now located) Weyerhaeuser - total of 152 Weaver Cove - revised is 385; future proposed is 1003 RI Nurseries (between Seaberry Farm and Stanton farm (Heidi Drive) - 14 single family units (Concept Plan - 3/18/2009) Glenn

From: Robert W. Gilstein Sent: Monday, March 09, 2009 11:07 AM To: Glenn W. Russell Jr.; George L. Medeiros Subject: Pending & Prospective developments

The City of Newport has hired a consultant to estimate future water uses for the island. I have been asked to prepare a list of pending developments and some guesstimates. Attached is the best I have. Can you please check it, correct it, add to it, etc. No need to detail minor projects or single family construction. Need for Wed. morning 3/9. Thanks, Bob Gilstein

From: Sent:	Robert W. Gilstein [rgilstein@portsmouthri.com] Wednesday, March 25, 2009 3:25 PM
To:	Diercks, Jeffrey
Subject:	Portsmouth - Map & Flows n Loads
Attachments:	Figure 2_1.pdf; Table 7-10.pdf; Table 7-7.pdf; Table 7-8.pdf

Jeff,

As promised, attached is a map showing the sewer service areas, along with the flows & loads calculations. Does not include the small cluster areas in the middle of the town, which are built out.

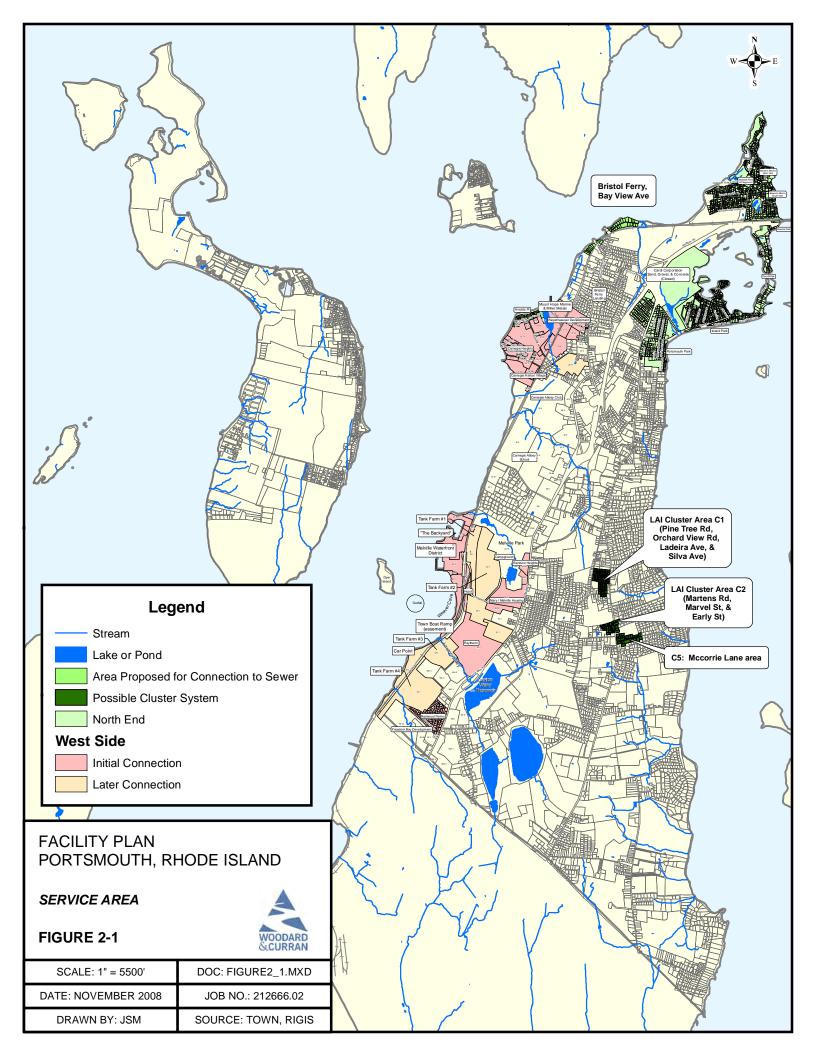
Flows show 3 time phases:

- "Initial" is now or in process. < 2 yrs.
- "Likely" is a) the most logical for additional houses in the north end. Small vacant lots are assumed buildable if they are 30 ft. wide. We do not assume any tear-downs where a house straddles two lots. b) is planning is well underway & we do expect development 3-10 yrs. out.
- "Buildout" is just that or 10+ yrs..

Please contact me with any questions, Bob

Robert Gilstein, Town Planner Town of Portsmouth 2200 East Main Road Portsmouth, RI 02871

401-683-0888 401-683-6804 (fax) rgilstein@portsmouthri.com



								WWTF	
Iternative	Sewer Service Area	Treatment Plant Location	Period	Connection Duration (years)	From completion of WWTF FM and Construction (years)	Connection Area	gpd	ADF Cumulative	MGD
1	North End	Founders Grove	Initial	2	2	Portsmouth Park, West of Chase Road	9pu 71,200	71,200	0.0
1	North End	Founders Grove	Initial	-	3	Island Park, Bristol Ferry and Bay View Avenue	111,000	182,200	0.1
1	North End	Founders Grove	Initial	2	5	Common Fence Point, Hummocks	138,900	321,100	0.3
1	North End	Founders Grove	Likely	before 10		Portsmouth Park, West of Chase Road	9,100	330,200	0.
1	North End	Founders Grove	Likely	before 10		Island Park, Bristol Ferry and Bay View Avenue	22,600	352,800	0.
1	North End	Founders Grove	Likely	before 10		Common Fence Point, Hummocks	22,600	375,400	0.
1	North End	Founders Grove	Full	10+		Portsmouth Park, West of Chase Road	0	375,400	0.
1	North End	Founders Grove	Full	10+		Island Park, Bristol Ferry and Bay View Avenue	58,300	433,700	0.
1	North End	Founders Grove	Full	10+		Common Fence Point, Hummocks	22,000	455,700	0.
	North Frid and Marth Oide	West Oids	lucitical.			Portsmouth Park, West of Chase Road, Abbey Industrial OPG properties			
2	North End and West Side	West Side	Initial	2	2	(Weyerhauser and Carnegie), and Raytheon Island Park, Bristol/Bay View Ave, Arnold's Pt, other Abbey-Industrial, and	199,800	199,800	0.
2	North End and West Side	West Side	Initial	2	Л	Navy, Weavers Cove	331,548	531,348	0.
2	North End and West Side	West Side	Initial	2	4	Common Fence Point, Hummocks, and other Raytheon-Navy-Melville	196,000	727,348	0.
2	North End and West Side	West Side	Initial	2	8	Redwood Farms, Cluster C1	39,339	766,687	0
2	North End and West Side	west Side	milla	2	0	Portsmouth Park, West of Chase Road, Abbey Industrial OPG properties	39,339	700,007	0
2	North End and West Side	West Side	Likely	before 10		(Weyerhauser and Carnegie), and Raytheon	71,100	837,787	0
2	North End and West Side	West Side	Likely			Island Park, Bristol/Bay View Ave, Arnold's Pt, other Abbey-Industrial, and			
			-	before 10		Navy, Weavers Cove	49,852	887,639	0.
2	North End and West Side	West Side	Likely	before 10		Common Fence Point, Hummocks, and other Raytheon-Navy-Melville	22,600	910,239	0.
2	North End and West Side	West Side	Likely	before 10		Redwood Farms, Cluster C1	0	910,239	0.
2	North End and West Side	West Side	Likely	before 10		Van Hoff, Addl Raytheon, Founders Home, tank Farms Portsmouth Park, West of Chase Road, Abbey Industrial OPG properties	233,300	1,143,539	1.
2	North End and West Side	West Side	Full	10+		(Weyerhauser and Carnegie), and Raytheon	0	1,143,539	1.
2	North End and West Side	West Side	Full	10+		Island Park, Bristol/Bay View Ave, Arnold's Pt, other Abbey-Industrial, and Navy, Weavers Cove	164,400	1,307,939	1.
2	North End and West Side	West Side	Full	10+		Common Fence Point, Hummocks, and other Raytheon-Navy-Melville	22,000	1,329,939	1.
2	North End and West Side	West Side	Full	10+		Redwood Farms, Cluster C1	0	1,329,939	1.
2	North End and West Side	West Side	Full	10+		Van Hoff, Addl Raytheon, Founders Home, tank Farms	154,100	1,484,039	1.
3	North End and West Side	North End	Initial	2	2	Portsmouth Park, West of Chase Road, Abbey Industrial OPG properties (Weyerhauser and Carnegie), and Raytheon	199,800	199,800	0.
3	North End and West Side	North End	Initial	2	4	Island Park, Bristol/Bay View Ave, Arnold's Pt, other Abbey-Industrial, and Navy, Weavers Cove	331,548	531,348	0
3	North End and West Side	North End	Initial	2	6	Common Fence Point, Hummocks, and other Raytheon-Navy-Melville	196,000	727,348	0
3	North End and West Side	North End	Initial	2	8	Redwood Farms, Cluster C1	39,339	766,687	0
3	North End and West Side	North End	Likely	before 10		Portsmouth Park, West of Chase Road, Abbey Industrial OPG properties (Weyerhauser and Carnegie), and Raytheon	71,100	837,787	0
3	North End and West Side	North End	Likely	before 10		Island Park, Bristol/Bay View Ave, Arnold's Pt, other Abbey-Industrial, and Navy, Weavers Cove	49,852	887,639	0.
3	North End and West Side	North End	Likely	before 10		Common Fence Point, Hummocks, and other Raytheon-Navy-Melville	22,600	910,239	0.
3	North End and West Side	North End	Likely	before 10		Redwood Farms, Cluster C1	22,000	910,239	0.
3	North End and West Side	North End	Likely	before 10		Van Hoff, Addl Raytheon, Founders Home, tank Farms	233,300	1,143,539	1.
3	North End and West Side	North End	Full	10+		Portsmouth Park, West of Chase Road, Abbey Industrial OPG properties (Weyerhauser and Carnegie), and Raytheon	0	1,143,539	1.
3	North End and West Side	North End	Full	10+		Island Park, Bristol/Bay View Ave, Arnold's Pt, other Abbey-Industrial, and	164,400	1,307,939	1.
3	North End and West Side	North End	Full	10+		Navy, Weavers Cove Common Fence Point, Hummocks, and other Raytheon-Navy-Melville	22,000	1,329,939	1.
3	North End and West Side	North End	Full	10+		Redwood Farms, Cluster C1	0	1,329,939	1.
3	North End and West Side	North End	Full	10+		Van Hoff, Addl Raytheon, Founders Home, tank Farms	154,100	1,484,039	1.

								WWTF	
Alternative	Sewer Service Area	Treatment Plant Location	Period	Connection Duration (years)	From completion of WWTF FM and Construction (years)	Connection Area	apd	ADF Cumulative	MGD
4	North End	Founders Grove	Initial	2	2	Portsmouth Park, West of Chase Road	71,200	71,200	0.07
4	North End	Founders Grove	Initial	1	3	Island Park, Bristol Ferry and Bay View Avenue	111,000	182,200	0.18
4	North End	Founders Grove	Initial	2	5	Common Fence Point, Hummocks	138,900	321,100	0.32
4	North End	Founders Grove	Likely	before 10		Portsmouth Park, West of Chase Road	9,100	330,200	0.33
4	North End	Founders Grove	Likely	before 10		Island Park, Bristol Ferry and Bay View Avenue	22,600	352,800	0.35
4	North End	Founders Grove	Likely	before 10		Common Fence Point, Hummocks	22,600	375,400	0.38
4	North End	Founders Grove	Full	10+		Portsmouth Park, West of Chase Road	0	375,400	0.38
4	North End	Founders Grove	Full	10+		Island Park, Bristol Ferry and Bay View Avenue	58,300	433,700	0.43
4	North End	Founders Grove	Full	10+		Common Fence Point, Hummocks	22,000	455,700	0.46
4	West Side	West Side	Initial	2	2	Abbey Industrial OPG properties (Weyerhauser and Carnegie), and Raytheon	128,600	128,600	0.13
4	West Side	West Side	Initial	2	4	Arnold's Pt, other Abbey-Industrial, and Navy, Weavers Cove	220,548	349,148	0.35
4	West Side	West Side	Initial	2	6	Other Raytheon-Navy-Melville	57,100	406,248	0.41
4	West Side	West Side	Initial	2	8	Redwood Farms, Cluster C1	39,339	445,587	0.45
4	West Side	West Side	Likely	before 10		Abbey Industrial OPG properties (Weyerhauser and Carnegie), and Raytheon	62,000	507,587	0.51
4	West Side	West Side	Likely	before 10		Arnold's Pt, other Abbey-Industrial, and Navy, Weavers Cove	27,252	534,839	0.53
4	West Side	West Side	Likely	before 10		Other Raytheon-Navy-Melville	0	534,839	0.53
4	West Side	West Side	Likely	before 10		Redwood Farms, Cluster C1	0	534,839	0.53
4	West Side	West Side	Likely	before 10		Van Hoff, Addl Raytheon, Founders Home, tank Farms	233,300	768,139	0.00
4	West Side	West Side	Full	10+		Abbey Industrial OPG properties (Weyerhauser and Carnegie), and Raytheon	0	768,139	0.77
4	West Side	West Side	Full	10+		Arnold's Pt, other Abbey-Industrial, and Navy, Weavers Cove	106,100	874,239	0.87
4	West Side	West Side	Full	10+		Other Raytheon-Navy-Melville	0	874,239	0.87
4	West Side	West Side	Full	10+		Redwood Farms, Cluster C1	0	874,239	0.87
4	West Side	West Side	Full	10+		Van Hoff, Addl Raytheon, Founders Home, tank Farms	154.100	1,028,339	1.03

							Lo	ads			
Alternative	Sewer Service Area	Treatment Plant Location	Period	Residential BOD Loading (lb/day)	Commercial /Industrial BOD Loading (Ib/day)	Total BOD Loading (Ib/day)	Residential TSS Loading (lb/day)		Total TSS Loading (Ib/day)	Total Phosphorus (Ib/day)	Total Ammonia Nitrogen (Ib/day)
1	North End	Founders Grove	Initial	108	16	124	108	19	127	5	č.
1	North End	Founders Grove	Initial	160	38	198	160	44	204	7	23
1	North End	Founders Grove	Initial	232	0	232	232	0	232	9	
1	North End	Founders Grove	Likely	116	28	143	116	32	148	5	17
1	North End	Founders Grove	Likely	198	38	236	198	44	242	9	28
1	North End	Founders Grove	Likely	270	0	270	270	0	270	11	34
1	North End	Founders Grove	Full	116	28	143	116	32		5	
1	North End	Founders Grove	Full	295	38	333	295	44	339	13	40
1	North End	Founders Grove	Full	306	0	306	306	0	306	12	38
2	North End and West Side	West Side	Initial	298	16	351	298	19	354	13	42
2	North End and West Side	West Side	Initial	225	214	625	225	236	646	22	69
2	North End and West Side	West Side	Initial	232	0	375	232	0	399	13	
2	North End and West Side	West Side	Initial	66	0	66	66	0	66	3	8
2	North End and West Side	West Side	Likely	116	28	526	116	32	562	18	57
2	North End and West Side	West Side	Likely	285	253	721	285	295	763	25	80
2	North End and West Side	West Side	Likely	270	143	413	270	167	436	15	
2	North End and West Side	West Side	Likely	66	0	66	66	0		3	
2	North End and West Side	West Side	Likely	37	529	578	37	617		16	
2	North End and West Side	West Side	Full	116	28	526	116	32	562	18	57
2	North End and West Side	West Side	Full	382	253	995	382	295	1,037	36	114
2	North End and West Side	West Side	Full	306	143	449	306	167	473	16	
2	North End and West Side	West Side	Full	66	0	66	66	0		3	
2	North End and West Side	West Side	Full	24	934	958	24	1,090		26	
3	North End and West Side	North End	Initial	298	16	351	298	19	354	13	42
3	North End and West Side	North End	Initial	225	214	625	225	236	646	22	69
3	North End and West Side	North End	Initial	232	0	375	232	0	399	13	41
3	North End and West Side	North End	Initial	66	0	66	66	0	66	3	8
3	North End and West Side	North End	Likely	116	28	526	116	32	562	18	57
3	North End and West Side	North End	Likely	285	253		285	295		25	
3	North End and West Side	North End	Likely	270	143	413	270	167		15	
3	North End and West Side	North End	Likely	66	0		66	0		3	
3	North End and West Side	North End	Likely	37	529	578	37	617	673	16	49
3	North End and West Side	North End	Full	116	28	526	116	32	562	18	57
3	North End and West Side	North End	Full	382	253		382	295		36	
3	North End and West Side	North End	Full	306	143	449	306	167		16	
3	North End and West Side	North End	Full	66	0	66	66	0		3	
3	North End and West Side	North End	Full	24	934	958	24	1,090	1,114	26	81

							Lo	ads			
					Commercial						
				Residential	/Industrial	Total		Commercial/			Total
		Treatment Plant		BOD	BOD	BOD	Residential		Total TSS	Total	Ammonia
Alternative	Sewer Service Area	Location	Period	Loading	Loading		TSS Loading			Phosphorus	Nitrogen
				(lb/day)	(lb/day)	(lb/day)	(lb/day)	(lb/day)	(lb/day)	(lb/day)	(lb/day)
4	North End	Founders Grove	Initial	108		124		19		5	
4	North End	Founders Grove	Initial	160	38	198	160	44	204	7	2
4	North End	Founders Grove	Initial	232	0	232	232	0	232	9	
4	North End	Founders Grove	Likely	116	28	143		32	148	5	
4	North End	Founders Grove	Likely	198	38	236	198	44	242	9	
4	North End	Founders Grove	Likely	270	0	270	270	0	270	11	3
4	North End	Founders Grove	Full	116	28	143	116	32	148	5	1
4	North End	Founders Grove	Full	295	38	333	295	44	339	13	4
4	North End	Founders Grove	Full	306	0	306	306	0	306	12	3
4	West Side	West Side	Initial	190	0	227	190	0	227	9	2
4	West Side	West Side	Initial	65	177	427	65	192	442	15	4
4	West Side	West Side	Initial	0	0	143	0	0	167	4	1
4	West Side	West Side	Initial	66	0	66	66	0	66	3	
4	West Side	West Side	Likely	0	0	382	0	0	415	13	4
4	West Side	West Side	Likely	87	215	485	87	251	521	17	5
4	West Side	West Side	Likely	0	143	143	0	167	167	4	1
4	West Side	West Side	Likely	66	0	66	66	0	66	3	•
4	West Side	West Side	Likely	37	529	578	37	617	673	16	4
4	West Side	West Side	Full	0	0	382	0	0	415	13	2
4	West Side	West Side	Full	87	215	662	87	251	698	24	7
4	West Side	West Side	Full	0	143	143	0	167	167	4	1
4	West Side	West Side	Full	66	0	66	66	0	66	3	
4	West Side	West Side	Full	24	934	958	24	1,090	1,114	26	8

Alternative	Sewer Service Area	Treatment Plant Location	Period	Connection Duration (years)	From completion of WWTF FM and Construction (years)	Connection Area		lection Syste Max Day Flow	
							gpd	Cumulative M	
1	North End	Founders Grove	Initial	2	2	Portsmouth Park, West of Chase Road	124,090	124,090	0.12
1	North End	Founders Grove	Initial	1	3	Island Park, Bristol Ferry and Bay View Avenue	201,990	326,080	0.33
1	North End	Founders Grove	Initial	2	5	Common Fence Point, Hummocks	270,480	596,560	0.60
1	North End	Founders Grove	Likely	before 10		Portsmouth Park, West of Chase Road	13,308	609,867	0.61
1	North End	Founders Grove	Likely	before 10		Island Park, Bristol Ferry and Bay View Avenue	44,160	654,027	0.65
1	North End	Founders Grove	Likely	before 10		Common Fence Point, Hummocks	44,160	698,187	0.70
1	North End	Founders Grove	Full	10+		Portsmouth Park, West of Chase Road	0	698,187	0.70
1	North End	Founders Grove	Full	10+		Island Park, Bristol Ferry and Bay View Avenue	113,505	811,692	0.81
1	North End	Founders Grove	Full	10+		Common Fence Point, Hummocks	42,780	854,472	0.85
2	North End and West Side	West Side	Initial	0	0	Portsmouth Park, West of Chase Road, Abbey Industrial OPG properties	202.200	202.200	0.00
				2	2	(Weyerhauser and Carnegie), and Raytheon	362,309	362,309	0.36
2	North End and West Side	West Side	Initial	2	4	Island Park, Bristol/Bay View Ave, Arnold's Pt, other Abbey-Industrial, and Navy, Weavers Cove	542,381	004 600	0.00
2	North End and West Side	West Side	Initial	2	6	Common Fence Point, Hummocks, and other Raytheon-Navy-Melville	327,580	904,690 1,232,270	0.90 1.23
2	North End and West Side	West Side	Initial	2	8	Redwood Farms, Cluster C1	76,550	1,308,820	1.31
2	North End and West Side	West Side		2	0	Portsmouth Park, West of Chase Road, Abbey Industrial OPG properties	70,550	1,300,020	1.51
2	North End and West Side	West Side	Likely	before 10		(Weyerhauser and Carnegie), and Raytheon	75,308	1,384,127	1.38
				belote to		Island Park, Bristol/Bay View Ave, Arnold's Pt, other Abbey-Industrial, and	75,500	1,004,127	1.00
2	North End and West Side	West Side	Likely	before 10		Navy, Weavers Cove	84,088	1,468,215	1.47
2	North End and West Side	West Side	Likely	before 10		Common Fence Point, Hummocks, and other Raytheon-Navy-Melville	44,160	1,512,375	1.51
2	North End and West Side	West Side	Likely	before 10		Redwood Farms, Cluster C1	0	1,512,375	1.51
2	North End and West Side	West Side	Likely	before 10		Van Hoff, Addl Raytheon, Founders Home, tank Farms	254,400	1,766,775	1.77
			•			Portsmouth Park, West of Chase Road, Abbey Industrial OPG properties		.,	
2	North End and West Side	West Side	Full	10+		(Weyerhauser and Carnegie), and Raytheon	0	1,766,775	1.77
				-		Island Park, Bristol/Bay View Ave, Arnold's Pt, other Abbey-Industrial, and	-	, , -	
2	North End and West Side	West Side	Full	10+		Navy, Weavers Cove	302,560	2,069,335	2.07
2	North End and West Side	West Side	Full	10+		Common Fence Point, Hummocks, and other Raytheon-Navy-Melville	42,780	2,112,115	2.11
2	North End and West Side	West Side	Full	10+		Redwood Farms, Cluster C1	0	2,112,115	2.11
2	North End and West Side	West Side	Full	10+		Van Hoff, Addl Raytheon, Founders Home, tank Farms	146,400	2,258,515	2.26
3	North End and West Side	North End	Initial	2	2	Portsmouth Park, West of Chase Road, Abbey Industrial OPG properties	362,309	362,309	0.36
-						(Weyerhauser and Carnegie), and Raytheon	,	,	
3	North End and West Side	North End	Initial	2	4	Island Park, Bristol/Bay View Ave, Arnold's Pt, other Abbey-Industrial, and Navy, Weavers Cove	542,381	904,690	0.90
2	North End and West Side	North End	Initial	2	C	Common Fence Point, Hummocks, and other Raytheon-Navy-Melville	327,580	1 000 070	1.00
3	North End and West Side	North End	Initial Initial	2 2	6 8	Redwood Farms, Cluster C1	76,550	1,232,270 1,308,820	1.23 1.31
3	North End and West Side	NOTITETIU	initial	2	0	Portsmouth Park, West of Chase Road, Abbey Industrial OPG properties	70,000	1,300,020	1.51
3	North End and West Side	North End	Likely	before 10		(Weyerhauser and Carnegie), and Raytheon	75,308	1,384,127	1.38
						Island Park, Bristol/Bay View Ave, Arnold's Pt, other Abbey-Industrial, and			
3	North End and West Side	North End	Likely	before 10		Navy, Weavers Cove	84,088	1,468,215	1.47
3	North End and West Side	North End	Likely	before 10		Common Fence Point, Hummocks, and other Raytheon-Navy-Melville	44,160	1,512,375	1.51
3	North End and West Side	North End	Likely	before 10		Redwood Farms, Cluster C1	0	1,512,375	1.51
3	North End and West Side	North End	Likely	before 10		Van Hoff, Addl Raytheon, Founders Home, tank Farms	254,400	1,766,775	1.77
			-			Portsmouth Park, West of Chase Road, Abbey Industrial OPG properties			
3	North End and West Side	North End	Full	10+		(Weyerhauser and Carnegie), and Raytheon	0	1,766,775	1.77
			–	10		Island Park, Bristol/Bay View Ave, Arnold's Pt, other Abbey-Industrial, and	000 500	0 000 005	0.07
3	North End and West Side	North End	Full	10+		Navy, Weavers Cove	302,560	2,069,335	2.07
3	North End and West Side	North End	Full	10+		Common Fence Point, Hummocks, and other Raytheon-Navy-Melville	42,780	2,112,115	2.11
3	North End and West Side	North End	Full	10+		Redwood Farms, Cluster C1	0	2,112,115	2.11
3	North End and West Side	North End	Full	10+		Van Hoff, Addl Raytheon, Founders Home, tank Farms	146,400	2,258,515	2.26

Alternative	Sewer Service Area	Treatment Plant Location	Period	Connection Duration (years)	From completion of WWTF FM and Construction (years)	Connection Area		llection Syster Max Day Flow	n
							gpd	Cumulative MC	
4	North End	Founders Grove	Initial	2	2	Portsmouth Park, West of Chase Road	124,090	124,090	0.12
4	North End	Founders Grove	Initial	1	3	Island Park, Bristol Ferry and Bay View Avenue	201,990	326,080	0.33
4	North End	Founders Grove	Initial	2	5	Common Fence Point, Hummocks	270,480	596,560	0.60
4	North End	Founders Grove	Likely	before 10		Portsmouth Park, West of Chase Road	13,308	609,867	0.61
4	North End	Founders Grove	Likely	before 10		Island Park, Bristol Ferry and Bay View Avenue	44,160	654,027	0.65
4	North End	Founders Grove	Likely	before 10		Common Fence Point, Hummocks	44,160	698,187	0.70
4	North End	Founders Grove	Full	10+		Portsmouth Park, West of Chase Road	0	698,187	0.70
4	North End	Founders Grove	Full	10+		Island Park, Bristol Ferry and Bay View Avenue	113,505	811,692	0.81
4	North End	Founders Grove	Full	10+		Common Fence Point, Hummocks	42,780	854,472	0.85
4	West Side	West Side	Initial	2	2	Abbey Industrial OPG properties (Weyerhauser and Carnegie), and Raytheon	238,219	238,219	0.24
4	West Side	West Side	Initial	2	4	Arnold's Pt, other Abbey-Industrial, and Navy, Weavers Cove	340,391	578,610	0.58
4	West Side	West Side	Initial	2	6	Other Raytheon-Navy-Melville	57,100	635,710	0.64
4	West Side	West Side	Initial	2	8	Redwood Farms, Cluster C1	76,550	712,260	0.71
4	West Side	West Side	Likely	before 10		Abbey Industrial OPG properties (Weyerhauser and Carnegie), and Raytheon	62,000	774,260	0.77
4	West Side	West Side	Likely	before 10		Arnold's Pt, other Abbey-Industrial, and Navy, Weavers Cove	39,928	814,188	0.81
4	West Side	West Side	Likely	before 10		Other Raytheon-Navy-Melville	0	814,188	0.81
4	West Side	West Side	Likely	before 10		Redwood Farms, Cluster C1	0	814,188	0.81
4	West Side	West Side	Likely	before 10		Van Hoff, Addl Raytheon, Founders Home, tank Farms	254,400	1,068,588	1.07
4	West Side	West Side	Full	10+		Abbey Industrial OPG properties (Weyerhauser and Carnegie), and Raytheon	0	1,068,588	1.07
4	West Side	West Side	Full	10+		Arnold's Pt, other Abbey-Industrial, and Navy, Weavers Cove	189,055	1,257,643	1.26
4	West Side	West Side	Full	10+		Other Raytheon-Navy-Melville	0	1,257,643	1.26
4	West Side	West Side	Full	10+		Redwood Farms, Cluster C1	0	1,257,643	1.26
4	West Side	West Side	Full	10+		Van Hoff, Addl Raytheon, Founders Home, tank Farms	146,400	1,404,043	1.40

TR-16 Estimates - WWTF - Average Daily Flow and Maximum Daily Flow

TR-TO EStillates - WWIF - P	trorago Daily II	on and max	Linuit Duity I	Total			Max	Max Day			Residential	Commercial/		Residential	Commercial/I	Total	Total	Total
	Total Res		Total Comm	Comm	Comm		Day	Sanitary			BOD	Industrial	Total BOD	TSS Loading	ndustrial	Total TSS	Phosphorus	Ammonia
	Parcels	Res Flow	Parcels	Acres	Flow	Total Flow	Factor	Flow	Infiltration	Max Day Flow	Loading	BOD	Loading	(lb/day)	TSS Loading	Loading	(lb/day)	Nitrogen
Initial Connection (Developed	By Right Parcel	s)							GPD	GPD	(lb/day)	(lb/day)	(lb/day)	(lb/day)	(lb/day)	(lb/day)	(lb/day)	(lb/day)
Island Park	504	89,258	73	15	15,000	104,300		0	0	0	149	38	187	149		193	7	22
Portsmouth Park	233	50,264	15	6	6,415	56,700		0	5,500	5,500	84	16	100	84	19	103	4	12
Common Fence Point	700	123,970	-	0	0	124,000		0	0	0	207	0	207	207	0	207	8	26
Hummocks	84	14,876	-	0	0	14,900		0	0	0	25	0	25	25		25	1	3
West of Chase Road	82	14,522	-	0	0	14,500		0	2,700	2,700	24	0	24	24	0	24		3
						314,400		0	8,200	10,000			542			551	21	66
"Likely" Connection																		
Island Park	632	111,927	73	15	15,000	126,900		0	0	0	187	38	224	187	44	231	8	26
Portsmouth Park	245	52,390	21	11	10,548	62,900		0	5,500	5,500	87	26	114	87	31	118	4	13
Common Fence Point	816	144,514	-	0	0	144,500		0	0	0	241	0	241	241	0	241		30
Hummocks	96	17,002	-	0	0	17,000		0	0	0	28	0	28	28		28	1	4
West of Chase Road	95	16,825	1	1	549	17,400		0	2,700	2,700	28	1	29	28	2	30	1	4
						368,700		0	8,200	10,000			637			648	25	77
Full Buildout (All Parcels)																		
Island Park	961	170,193	73	15	15,000	185,200		0	0	0	284	38	322	284		328	12	39
Portsmouth Park	245	52,390	21	11	10,548	62,900		0	5,500	5,500	87	26	114	87	• ·	118	4	13
Common Fence Point	940	166,474	-	0	0	166,500		0	0	0	278	0	278	278		278		35
Hummocks	96	17,002	-	0	0	17,000		0	0	0	28	0	28	28		28	1	4
West of Chase Road	95	16,825	1	1	549	17,400 449.000		0	2,700 8.200	2,700 10.000	28	1	29 771	28	2	30 782	30	4
						449,000		0	IP residential							/02	30	94
	70 c	uned								new lots by right								
			ousehold per	2000 Can	eue					new lots "practica	1"							
			way School (4		aua					maximum new lot								
			mercial prope							straddle dotted lir								
		ommercial p		100					PP residentia									
			tered parcels	(DP count	t)					vacant buildable l	ots							
			etered proper						1	vacan buluable i	015							
	50 0		icicica piopei	100 (02-4	Di Sount)													

OWTS Estimates - Collection System - Max Day Flow and Peak Hourly Flow

onro Estimates Concetion				Total				Peak		
	Total Res		Total Comm	Comm	Comm		Peak	Sanitary		Peak Hourly
	Parcels	Res Flow	Parcels	Acres	Flow	Total Flow	Factor	Flow	Infiltration	Flow
Developed/By Right Parcels									GPD 0	GPD
Island Park	504	173,880	73	15	15,000	188,880	5.2	982,176	0	982,176
Portsmouth Park	233	89,385	15	6	6,415	95,800	5.6	536,479	5,500	541,979
Common Fence Point	700	241,500	-	-	0	241,500	4.8	1,159,200	0	1,159,200
Hummocks	84	28,980	-	-	0	28,980	5.6	162,288	0	162,288
West of Chase Road	82	28,290	-	-	0	28,290	5.6	158,424	2,700	161,124
Bristol Ferry/Bay View Ave	38	13,110	-	-	0	13,110	5.6	73,416	1,300	74,716
						596,560		0	9,500	9,500
"Likely" Parcels										
Island Park	632	218,040	73	15	15,000	233,040	4.80	1,118,592	0	1,118,592
Portsmouth Park	245	93,525	21	11	10,548	104,073	5.60	582,809	5,500	588,309
Common Fence Point	816	281,520	-	-	0	281,520	4.60	1,294,992	0	1,294,992
Hummocks	96	33,120	-	-	0	33,120	5.60	185,472	0	185,472
West of Chase Road	95	32,775	1	1	549	33,324	5.60	186,616	2,700	189,316
Bristol Ferry/Bay View Ave	38	13,110	-	-	0	13,110	5.60	73,416	1,300	74,716
						698,187		0	9,500	1,710,000
All Parcels										
Island Park	961	331,545	73	15	15,000	346,545	4.4	1,524,798	0	1,524,798
Portsmouth Park	245	93,525	21	11	10,548	104,073	5.6	582,809	5,500	588,309
Common Fence Point	940	324,300	-	-	0	324,300	4.0	1,297,200	0	1,297,200
Hummocks	96	33,120	-	-	0	33,120	5.6	185,472	0	185,472
West of Chase Road	95	32,775	1	1	549	33,324	5.6	186,616	2,700	189,316
Bristol Ferry/Bay View Ave	38	13,110	-	-	0	13,110	5.6	73,416	1,300	74,716
			1			854,472		0	8,200	2,110,000

1000 gpad for commercial properties 9000 gpd for Hathaway School (450 * 20) per ISDS regs

Loading Characteristics	Residential mg/L	Commercial/I ndustrial mg/L
BOD	200	300
TSS	200	350
Total Phosphorus	8	8
Ammonia Nitrogen	25	25
Based on Metcalf & Eddy		

	2	50 gpd	per idm						
Sewer Area	Diameter (in)	Leng (ft)	gth	Length (miles)		idm	gpd		Notes:
Island Park	()	()		(/				0	Not applicable - all low pressure sewer
Portsmouth Park		8	14,500		2.75	21.97		5,500	
Common Fence Point								0	Not applicable - all low pressure sewer
Hummocks								0	Not applicable - all low pressure sewer
West of Chase Road Alt 1		8	7200		1.36	10.91		2,700	
Chase Road (Alt 2, 3, and 4)		8	10,500		1.99	15.91		4,000	
Briston Ferry/Bay View Ave		8	3500		0.66	5.30		1.300	

From:	Bronk, Paige [pbronk@cityofnewport.com]
Sent:	Wednesday, March 11, 2009 7:56 PM
To:	Diercks, Jeffrey
Cc:	Forgue, Julia; Lavallee, Ed
Subject:	Meeting on Demographics and Development
Importance:	High

Jeff,

It was a pleasure meeting with you today regarding the City's water treatment facility planning. I hope that the information that was provided will be helpful.

As promised, I am providing a rough listing of anticipated future projects in Newport. I have separated them into two timeframes below.

< 5 years

- 2009 Coddington Cove Residential Project 24+/- affordable residential units
- 2009 Lenthal School Condominiums 13 residential condominium units
- 2009 41 Degrees North Mixed Use Hotel, restaurant, spa, and marina
- 2009 Coastal Extreme Brewing 8,500 square foot brewery and rum manufacturing facility
- 2010 Sheffield School Economic Development 33,000 square feet of commercial space
- 2010 BankNewport Office Headquarters 75,000 square feet of office space for 120 employees
- 2010 Icehouse Property Mixed use with restaurant, retail and office
- 2011 Newport Heights (Phase V) approximately 80 affordable residential housing units
- 2011 Bellevue Gardens 43 Residential condominiums plus some commercial
- 2011 Old Post Office Building about 70,000 square foot commercial use likely for hotel, residential or office uses.
- 2011 Carey School Development Project likely residential use about 8 units.

5 - 10 years

- Former U.S. Navy Hospital Property and Buildings 7 acres of land/3 acres of water about 200,000 square feet mixed use development likely to contain a hotel (100 rooms), offices, retail and residences plus marina
- Pell Bridge Realignment Parcel (North) 12 acres of land about 125,000 square foot commercial building
- Pell Bridge Realignment Parcel (South) 19 acres of land about 300,000 square feet of mixed use development
 including retail, office, and housing plus a parking garage and transit center.

Please let me know if you need any further details to assist with your calculations.

Thanks.

Paige

Paige R. Bronk, AICP Director of Planning, Zoning, Development & Inspections City of Newport, RI 02840 (401) 845-5450 Appendix C Water Demand Projection from Naval Station Newport

From:	Poisson, Roger N CIV NAVFAC MIDLANT, NWPT [roger.poisson@navy.mil]
Sent:	Monday, July 20, 2009 8:46 AM
To:	Diercks, Jeffrey
Cc:	Reichert, John C CIV NAVFAC MIDLANT; Carlson, James F CIV NAVFAC MIDLANT, NWPT; Bo, Gregor S CDR NAVFAC MIDLANT, NWPT; Galuska, Joanne S CIV NAVFAC MIDLANT; Smith, Donald CIV NAVFAC MIDLANT; Weber, Michael L NAVFAC; Jones, J. B. CIV NAVFAC MIDLAN; Sullivan, Daniel L CIV NAVFAC MIDLANT, NWPT; Sprague, James CIV NAVFAC MIDLANT, NWPT
Subject:	RE: Materials from Feb 12 Newport meeting
Attachments:	7-14-09ASSEMBLY OF WATER DATA.xls

Jeffrey,

Jim asked if I could assist him on developing reasonable numbers for future Navy water requirements.

Let me give you the process and information I used.

In the above attachment you will find:

TAB 1: SUMMARY (Addressed in DISCUSSION below)

TAB 2: Don's Data ... Our crackerjack utility analyst put this together for us. We went back and retrieved the water usage data for the past ten years. In addition to obtaining the total amounts used each year by the Navy, I also had him divide it up by the source of the water. If you're determining the safe yield of either the Lawton Valley or the Eaton Pond systems, than it would be good for you to know the demand on each one in particular. TAB 3: PORTSMOUTH DATA provides the water data for the period that the Navy received water from the Portsmouth Water and Fire District. This information also provided us the average daily flows for the month in addition to the flows per day so a maximum day could be determined. The max day ranged from 114% to 435%. These readings were added to the Newport amounts to determine total flows.

TAB 4: NPT MONTH DATA is similar to the Portsmouth data above, except that it is only for the month of June. Like the above TAB 3, the info was used to determine the percent over the average for the MAX day. Those percentages ran from 118% to 360%. TAB 5: charts - This tab plots the Navy water usage for the past ten years by total flows and by source reservoir systems.

DISCUSSION:

As noted on TAB 5, three graphs are provided. One for water received through the Eaton Pond System, a second for the flows supplied through the Lawton Valley system and a third chart showing both flows collectively. The Eaton Pond System supplies flows to the southerly portion of the Station which includes: Fort Adams, Naval Health Care New England, Cloyne Court & Farragut Field Housing Areas, and Coasters Harbor Island. The remaining portion of the Station to the north is fed via the Lawton Valley System. This is the normal split of the systems, though through valving at the main Station, this split can be changed; but is only done so during periods of emergency. These numbers also represent the Navy usage and excludes the private customers billed directly by Newport but fed through the Navy system. In any sound analysis of the draw by the Navy system on Newport, you will need to obtain and include the data for the private customers served by Newport via the Navy system. In the past, Newport provided us that data but now we are not made privy of that information so it will need to be obtained directly from the City. What we do know is that O'Neill properties in Portsmouth (on the Lawton System) is planning a major development which will require significant increases in water flows. A review of the graph for the ten year period indicates that out flow usages have been up and down over the years with one low period followed by a higher period. We reviewed the peak in the FY 2004 time period to determine if this was an anomaly that could be explained by a break or some other event that had occurred out of the norm. But since the flow charts from the both sources mirror each other significantly, this would indicate a global event throughout the entire Station or a change in water usage estimating methods used by the City.

Your recommendation to use the latest full year of readings, FY2008, as the base year is flawed. What if your study was being done in FY2003 and the last full reading you had was FY2002; which was .856 MGD; and used this flow as your base year. If you had chosen that reading then and designed accordingly, how would we have handled the FY2004 requirement of 1.333 MGD; a 55%+ increase from FY2002. Our ten year average daily flows are .992 MGD and our latest 5 year average daily flows, the period where water saving measures have been implemented, is .952 MGD. That latter being not significantly different from the former.

TABS 3 and 4 provide daily flows over a period. These charts show Maximum Daily Flows that range from 114% to 435% over the Average Daily Flows. A reasonable maximum average day was determined to be 155% over the Daily Average. This Maximum Average will need to be considered also in any safe yield study for either system.

RECOMMENDATION:

Based on the records for the past 10 years, conservation measures being implemented and our foreseen increases in the next 5 years, we project our flows to be in the .900 MGD range. This flow would be broken out as follows:

Flow:	Eaton Pond System: .310 MGD	Average Daily Flow:	.200 MGD	Maximum Daily
Flow:	Lawton Valley System: 1.085 MGD	Average Daily Flow:	.700 MGD	Maximum Daily
Flow:	TOTALS: 1.395 MGD	Average Daily Flow:	.900 MGD	Maximum Daily

Based on the Navy's Master Plan which gives a vision of the Navy in Newport into 2035, I would anticipate the projected flows in the future to be relatively steady to what is noted above.

Further recommend that sewerage treatment totals be reviewed as they parallel water usages and that the information on the private customers served by Newport via the Navy system be obtained.

Roger N. Poisson, PE NAVSTA BRAC Coordinator Community Plans and Liaison Officer Naval Station Newport Newport, Rhode Island 02841-1711 DSN: 948-7609 Comm: (401) 841-7609

	7/16/2009		LAWTON VALLEY		EASTON POND		TOTAL FLOW				TAB 1	
	FY	-	TOTAL	DAILY AVERAGE	TOTAL	DAILY AVERAGE	TOTAL	DAILY AVERAGE	DELTA			
	FY99	Ν	306,632,000	840,088	60,904,000	166,860	367,536,000	1,006,948				
	FY00	Ν	359,128,405	981,225	75,407,000	206,030	434,535,405	1,187,255	66,999,405			
	FY01	Ν	340,651,400	933,292	85,450,000	234,110	426,101,400	1,167,401	(8,434,005)			
	FY02	Ν	242,979,000	665,696	69,501,000	190,414	312,480,000	856,110	(113,621,400)			
	FY03	Ν	269,326,000	737,879	73,814,000	202,230	343,140,000	940,110	30,660,000			
	FY04	Ν	362,726,900	991,057	125,294,380	342,334	488,021,280	1,333,391	144,881,280			
	FY05	N	278,643,225	763,406	92,247,056	252,732	370,890,281	1,016,138	(117,130,999)			
	FY06	N P	258,513,700 142,060		63,160,616	173,043	321,816,376	952,329	(49,073,905)			
	FY07	N P	212,511,649 16,534,050		45,927,436	125,829	274,973,135	753,351	(46,843,241)			
	FY08	N P	190,084,028 11,728,988		55,610,120	151,940	257,423,136	703,342	(17,549,999)			
PARTIAL YEAR	FY09	N P	140,908,159 5,663,580		36,938,048	135,304	183,509,787	672,197	244,679,716.00			
	MAXIMUN		Y SHOULD BE ASS	SUMED AT 155% AV	ERAGE DAILY							
BASED ON		1									700	
AVERAGE AVE X 155			284,960,141	787,085 1,219,982	74,731,561	204,552 317,056	359,691,701	991,638 1,537,038	359,691,701	991,638 1,537,038	175	1356.25
BASED ON AVERAGE AVE X 155		AVE	RAGE 266,176,920	742,535 1,150,929	76,447,922	209,176 324,222	342,624,842	951,710 1,475,151				

											TAB 2	2
	OCT	30 NOV	DEC	31 JAN	28 / 29 FEB	MAR	30 APR	31 MAY	30 JUN	JUL	AUG	30 SEPT
FY 99												
NRMC BOILER RM	-	-	-	-	-	-	-	-	-	-	-	-
NRMC GATE 7 NRMC QTRS H	350,000 12,000	278,000 4,000	168,000 2,000	- 4,000	17,000 4,000	4,000	7,000	13,000 4,000	65,000 4,000	300,000 3,000	4,000	4,000
CHI RSD PIT	3,367,000	5,171,000	3,012,000	2,628,000	2,084,000	1,773,000	1,963,000	2,697,000	3,716,000	3,981,000	4,658,000	4,568,000
CHI CLN CRT	91,000	88,000	90,000	102,000	100,000	110,000	121,000	126,000	162,000	163,000	155,000	124,000
FORT ADAMS	1,262,000	1,609,000	1,427,000	1,729,000	1,570,000	1,527,000	1,645,000	1,576,000	1,750,000	1,287,000	1,690,000	1,530,000
MONTHLY TOTALS DAILY AVERAGE	5,082,000 163,935	7,150,000 238,333	4,699,000 151,581	4,463,000 143,968	3,775,000 134,821	3,414,000 110,129	3,736,000 124,533	4,416,000 142,452	5,697,000 189,900	5,734,000 184,968	6,512,000 210,065	6,226,000 207,533
QUARTERLY TOTALS			16,931,000			11,652,000			13,849,000			18,472,000
CHASE LANE	2,651,000	-	-	-	-	-	2,000	-	-	-	11,000	-
N. ANCHORAGE S. ANCHORAGE	2,116,000	4,028,000	3,796,000	4,395,000	4,436,000	4,143,000	5,030,000	4,508,000	4,731,000	4,530,000	5,069,000	4,898,000
CODD HWY	2,110,000	2,388,000	2,380,000	3,031,000	2,739,000	2,653,000	3,491,000	2,726,000	2,757,000	2,935,000	3,839,000	3,225,000
GATE 4 CP	4,406,000	4,499,000	4,034,000	4,092,000	4,366,000	3,921,000	4,357,000	3,708,000	4,046,000	4,638,000	4,957,000	4,895,000
GREENE LANE LAWTON VALLEY	488.000	32.000	3,700,000	14,100,000 3,000	12,100,000	11,561,000 3,000	12,980,000	14,490,000	16,674,000	29,895,000	17,800,000 21,588,000	12,000,000
MONTHLY TOTALS DAILY AVERAGE	10,433,000 336,548	10,947,000 364,900	13,927,000 449,258	25,621,000 826,484	23,641,000 844,321	22,281,000 718,742	25,862,000 862,067	25,432,000 820,387	28,208,000 940,267	41,998,000 1,354,774	53,264,000 1,718,194	25,018,000 833,933
QUARTERLY TOTALS			35,307,000			71,543,000			79,502,000			120,280,000
FY 00												
NRMC BOILER RM	-	-	-	-	-	-	-	-	29,000	1,000	-	-
NRMC GATE 7 NRMC OTRS H	1,802,000	4.000	- 3.000	4,000	7,000	3,000	4.000	2.000	4.000	6,000	388,000	732,000
CHI RSD PIT	3,276,000	3,066,000	2,388,000	1,949,000	3,664,000	2,533,000	2,711,000	3,350,000	5,233,000	8,001,000	9,151,000	7,759,000
CHI CLN CRT	99,000	125,000	105,000	122,000	-	305,000	143,000	172,000	152,000	128,000	142,000	101,000
FORT ADAMS	1,469,000	1,640,000	1,410,000	1,602,000	1,746,000	1,349,000	1,460,000	1,654,000	1,480,000	1,140,000	1,382,000	1,397,000
MONTHLY TOTALS DAILY AVERAGE	6,649,000 214,484	4,835,000 161,167	3,906,000 126,000	3,677,000 118,613	5,421,000 186,931	4,190,000 135,161	4,318,000 143,933	5,178,000 167,032	6,898,000 229,933	9,276,000 299,226	11,067,000 357,000	9,992,000 333,067
QUARTERLY TOTALS			15,390,000			13,288,000			16,394,000			30,335,000
CHASE LANE	965,000	4,100,000	4,300,000	-	-	4,100,000	4,200,000	4,100,000	-	8,325,000	4,200,000	4,300,000
N. ANCHORAGE S. ANCHORAGE	4,621,000	9,778,000	- 290,500	4,606,000	- 5,694,500	4,630,000	5,056,000	5,106,000		- 7,495,000	3,781,000	3,174,000
CODD HWY	2,845,000	4,312,000	3,802,000	5,132,000	5,719,000	4,782,000	4,817,000	4,310,000	2,717,000	691,000	848,000	770,000
GATE 4 CP	4,963,000	4,854,000	3,680,000	4,075,000	5,464,000	3,680,000	4,245,000	4,632,000	4,391,000	4,758,000	4,870,000	4,248,000
GREENE LANE LAWTON VALLEY	10,800,000 5,622,105	12,200,000 4,500,000	9,600,000 4,153,800	11,900,000	11,500,000 7,205,200	4,010,000	11,600,000 3,784,700	10,467,700 3,619,400	11,200,000 3,623,900	12,100,000 3,622,300	11,900,000 3,792,300	10,300,000 4,200,000
MONTHLY TOTALS	29,816,105	39,744,000	25,826,300	25,713,000	35,582,700	21,202,000	33,702,700	32,235,100	21,931,900	36,991,300	29,391,300	26,992,000
DAILY AVERAGE	961,810	1,324,800	833,106	829,452	1,226,990	683,935	1,123,423	1,039,842	731,063	1,193,268	948,106	899,733
QUARTERLY TOTALS			95,386,405			82,497,700			87,869,700			93,374,600
FY 01												
NRMC BOILER RM	-	-	-	-	-	-	-	-	-	-	-	-
NRMC GATE 7 NRMC QTRS H	284,000	611,000 4,000	475,000	561,000	1,204,000	573,000	828,000	1,253,000	1,571,000	1,672,000	1,972,000	1,627,000
CHI RSD PIT	7,251,000	3,214,000	2,354,000	2,691,000	3,530,000	2,656,000	3,016,000	3,497,000	5,920,000	6,247,000	6,638,000	6,182,000
CHI CLN CRT	101,000	96,000	86,000	106,000	106,000	101,000	115,000	143,000	124,000	202,000	177,000	246,000
FORT ADAMS	1,460,000	1,476,000	1,469,000	1,626,000	1,391,000	1,429,000	1,523,000	1,291,000	1,916,000	1,172,000	1,432,000	1,792,000
MONTHLY TOTALS DAILY AVERAGE	9,099,000 293,516	5,401,000 180,033	4,387,000 141,516	4,989,000 160,935	6,234,000 222,643	4,763,000 153,645	5,485,000 182,833	6,188,000 199,613	9,534,000 317,800	9,295,000 299,839	10,219,000 329,645	9,856,000 328,533
QUARTERLY TOTALS			18,887,000			15,986,000			21,207,000			29,370,000
CHASE LANE	4,100,000	4,000,000	4,200,000	4,200,000	4,200,000	4,200,000	4,200,000	÷	-	-	-	-
N. ANCHORAGE S. ANCHORAGE	-	4,653,000	3,995,500	4,324,200	7,352,300	5,100,000	4,969,000	5.034.500	5,001,700	-	-	-
CODD HWY	1,019,000	3,415,000	4,327,000	5,703,000	5,672,000	5,850,000	5,761,000	3,868,000	1,465,000	4,548,000	5,466,000	5,302,000
GATE 4 CP	5,257,000	4,637,000	4,838,000	4,343,000	4,508,000	4,188,000	4,600,000	5,272,000	4,936,000	4,797,000	4,810,000	6,321,000
GREENE LANE LAWTON VALLEY	10,400,000 3,700,300	11,200,000 3,703,200	11,300,000 3,762,795	14,000,000 3,844,205	11,400,000 3,824,400	9,100,000 3,795,300	9,600,000 3,665,900	9,300,000 3,416,800	9,800,000 3,348,300	10,200,000 99,000	8,900,000	8,500,000 20,000
MONTHLY TOTALS DAILY AVERAGE	27,814,300 897,235	31,608,200 1,053,607	32,423,295 1,045,913	36,414,405 1,174,658	36,956,700 1,319,882	32,233,300 1,039,784	32,795,900 1,093,197	26,891,300 867,461	24,551,000 818,367	19,644,000 633,677	19,176,000 618,581	20,143,000 671,433

	31 OCT	30 NOV	31 DEC	31 JAN	28 / 29 FEB	31 MAR	30 APR	31 MAY	30 JUN	JUL	AUG	30 SEPT
QUARTERLY TOTALS			91,845,795			105,604,405			84,238,200			58,963,000
FY 02												
NRMC BOILER RM NRMC GATE 7 NRMC OTRS H CHI RSD PIT FORT ADAMS CHI CLN CRT	- 931,000 9,000 3,633,000 1,361,000 170,000	597,000 - 2,589,000 1,986,000 227,000	974,000 19,000 2,292,000 1,912,000 186,000	466,000 14,000 2,137,000 2,137,000 232,000	- 527,000 8,000 2,220,000 1,806,000 179,000	473,000 9,000 2,113,000 1,741,000 176,000	875,000 7,000 2,666,000 1,679,000 191,000	782,000 9,000 2,616,000 1,833,000 195,000	728,000 10,000 3,147,000 1,821,000 201,000	900,000 - 3,703,000 1,519,000 231,000	1,427,000 4,933,000 1,684,000 251,000	943,000 30,000 3,530,000 2,264,000 202,000
MONTHLY TOTALS DAILY AVERAGE	6,104,000 196,903	5,399,000 179,967	5,383,000 173,645	4,986,000 160,839	4,740,000 169,286	4,512,000 145,548	5,418,000 180,600	5,435,000 175,323	5,907,000 196,900	6,353,000 204,935	8,295,000 267,581	6,969,000 232,300
QUARTERLY TOTALS			16,886,000			14,238,000			16,760,000			21,617,000
CHASE LANE CODD HWY GATE 4 CP GREENE LANE LAWTON VALLEY	4,842,000 3,701,000 5,500,000 40,000	10,029,000 4,562,000 7,200,000 187,000	9,874,000 4,214,000 6,100,000 193,000	11,764,000 4,189,000 6,300,000 239,000	- 10,189,000 4,273,000 5,500,000 8,000	9,367,000 3,908,000 5,500,000 5,000	9,646,000 4,038,000 6,135,000 6,000	9,697,000 4,578,000 6,965,000 10,000	8,434,000 1,333,000 2,102,000 13,000	- 7,581,000 4,608,000 10,227,000 179,000	7,197,000 10,749,000 10,943,000 -	5,383,000 4,730,000 10,677,000 64,000
MONTHLY TOTALS DAILY AVERAGE	14,083,000 454,290	21,978,000 732,600	20,381,000 657,452	22,492,000 725,548	19,970,000 713,214	18,780,000 605,806	19,825,000 660,833	21,250,000 685,484	11,882,000 396,067	22,595,000 728,871	28,889,000 931,903	20,854,000 695,133
QUARTERLY TOTALS			56,442,000			61,242,000			52,957,000			72,338,000
FY 03												
NRMC BOILER RM NRMC GATE 7 NRMC QTRS H CHI RSD PIT CHI CLN CRT FORT ADAMS	723,000 - - 190,000 2,431,000	550,000 48,000 2,328,000 163,000 2,015,000	582,000 6,000 2,198,000 172,000 1,945,000	371,000 13,000 1,532,000 178,000 2,207,000	- 908,000 6,000 2,031,000 175,000 1,861,000	446,000 10,000 2,166,000 158,000 2,227,000	- 676,000 4,000 3,089,000 351,000 2,384,000	- 676,000 6,000 2,619,000 565,000 1,981,000	353,000 11,000 3,990,000 543,000 2,083,000	599,000 - 4,916,000 573,000 1,749,000	- 332,000 25,000 5,110,000 514,000 1,788,000	336,000 10,000 4,967,000 580,000 2,370,000
MONTHLY TOTALS DAILY AVERAGE	6,318,000 203,806	5,104,000 170,133	4,903,000 158,161	4,301,000 138,742	4,981,000 177,893	5,007,000 161,516	6,504,000 216,800	5,847,000 188,613	6,980,000 232,667	7,837,000 252,806	7,769,000 250,613	8,263,000 275,433
QUARTERLY TOTALS			16,325,000			14,289,000			19,331,000			23,869,000
CHASE LANE N. ANCHORAGE S. ANCHORAGE CODD HWY GATE 4 CP GREENE LANE LAWTON VALLEY	- 7,319,000 4,633,000 10,837,000 4,000	- 3,445,000 1,402,000 9,139,000 4,000	33,407 - - 3,257,000 - 8,325,000 5,000	9,887,593 - - 4,263,000 12,040,600 7,812,000 -	6,755,000 - - 5,196,000 4,714,200 8,891,000 -	6,211,000 - - 4,758,000 4,522,300 7,537,000 9,000	7,989,000 - - 4,397,000 5,217,900 9,837,000 151,000	7,370,000 - 2,550,000 4,551,000 8,163,000 1,648,000	7,494,000 - 2,254,000 4,166,000 8,607,200 1,923,000	9,248,000 - - 2,720,000 4,656,000 - 84,000	7,054,000 - - 3,631,000 4,862,000 1,979,800 27,000	9,115,000 - - 3,802,000 5,328,000 9,491,000 10,000
MONTHLY TOTALS DAILY AVERAGE	22,793,000 735,258	13,990,000 466,333	11,620,407 374,852	34,003,193 1,096,877	25,556,200 912,721	23,037,300 743,139	27,591,900 919,730	24,282,000 783,290	24,444,200 814,807	16,708,000 538,968	17,553,800 566,252	27,746,000 924,867
QUARTERLY TOTALS			48,403,407			82,596,693			76,318,100			62,007,800
FY 04												
NRMC BOILER RM NRMC GATE 7 NRMC QTRS H CHI RAISED PIT CHI CLOYNE CT FORT ADAMS	6,000 3,225,000 574,000 1,582,000	- 894,000 7,000 3,741,000 1,020,000 2,252,000	- 284,000 7,000 3,470,000 465,000 2,485,000	- 89,000 10,000 2,904,000 150,000 2,296,000	- 135,000 7,000 16,728,000 170,000 2,754,100	- 167,000 6,000 18,665,000 153,000 2,284,900	- 145,000 8,000 18,343,000 133,000 2,071,000	- 300,000 6,000 2,056,000 127,000 2,185,000	- 288,000 7,000 8,939,000 171,000 2,268,000	- 300,000 2,000 5,000,000 243,000 2,000,000	- 270,000 15,000 4,550,000 200,000 1,950,000	- 268,000 4,000 5,000,000 68,000 1,846,380
MONTHLY TOTALS DAILY AVERAGE	5,387,000 173,774	7,914,000 263,800	6,711,000 216,484	5, 449,000 175,774	19,794,100 682,555	21,275,900 686,319	20,700,000 690,000	4,674,000 150,774	11, 673,000 389,100	7,545,000 243,387	6,985,000 225,323	7,186,380 239,546
QUARTERLY TOTALS			20,012,000			46,519,000			37,047,000			21,716,380
CHASE LANE N. ANCHORAGE S. ANCHORAGE	7,972,000 - -	8,833,000 - -	2,935,000 - -	17,286,000 - -	13,319,000 - -	10,201,000 - -	9,638,000 - -	10,387,000 - -	9,923,000 - -	8,000,000	7,409,000	8,333,000 - -
CODD HWY GATE 4 CP GREENE LANE LAWTON VALLEY	3,069,000 3,961,000 3,667,800 18,500	6,389,000 7,771,000 2,033,000	9,012,000 4,835,000 11,084,000 -	12,733,000 4,092,000 11,754,000 14,500	17,810,000 5,493,000 15,180,000 3,000	12,095,000 4,716,000 10,099,000 6,000	11,282,000 4,713,000 9,364,000 3,000	11,353,000 4,681,000 5,833,000 10,000	8,058,000 4,668,000 1,557,900 22,000	8,000,000 4,745,000 9,000,000 10,000	2,728,000 3,300,000 1,270,600 20,000	3,589,000 6,557,000 1,870,600 20,000
MONTHLY TOTALS DAILY AVERAGE	18,688,300 602,848	25,026,000 834,200	27,866,000 898,903	45,879,500 1,479,984	51,805,000 1,786,379	37,117,000 1,197,323	35,000,000 1,166,667	32,264,000 1,040,774	24,228,900 807,630	29,755,000 959,839	14,727,600 475,084	20,369,600 678,987
QUARTERLY TOTALS			71,580,300			134,801,500			91,492,900			64,852,200

FY 05	OCT	30 NOV	DEC	JAN	28 / 29 FEB	MAR		31 MAY	30 JUN	31 JUL	AUG	30 SEPT
NRMC BOILER RM NRMC GATE 7 NRMC QTRS H	- 284,000 1,000	 260,000 1,000	- 531,000 -	- 350,000 -	- 434,000 2,000	- 45,000 -	- 125,000 2,000	- 1,281,000 2,000	- 347,000 5,000	- 344,000 8,000	- 303,000 8,000	324,000 1,000
CHI RAISED PIT CHI CLOYNE CT FORT ADAMS	4,662,500 96,000 2,377,000	3,211,400 143,000 2,500,000	3,276,720 121,000 3,145,620	4,000,000 180,000 2,934,000	7,874,800 165,000 5,823,000	2,470,000 74,000 2,094,000	3,561,200 125,000 3,964,000	3,356,000 412,000 959,250	3,028,630 179,000 4,034,066	4,534,370 151,000 1,557,250	4,804,170 148,000 1,863,000	7,798,830 260,000 1,705,250
MONTHLY TOTALS	7,420,500	6,115,400	7,074,340	7,464,000	14,298,800	4,683,000	7,777,200	6,010,250	4,034,000	6,594,620	7,126,170	10,089,080
DAILY AVERAGE	239,371	203,847	228,205	240,774	510,671	151,065	259,240	193,879	253,123	212,730	229,876	336,303
QUARTERLY TOTALS			20,610,240			26,445,800			21,381,146			23,809,870
CHASE LANE CODD HWY GATE 4 CP GREENE LANE	7,555,000 4,104,000 5,598,000 1,329,150	8,151,000 6,142,000 5,002,000 2,001,400	7,985,000 6,473,000 3,723,000 1,665,275	7,573,000 8,000,000 4,000,000 8,289,400	11,762,000 10,453,000 4,343,000 5,977,000	3,941,000 3,617,000 1,994,000 5,320,000	6,737,000 - 4,000,000 15,372,000	6,867,000 8,741,000 3,766,000 4,576,000	5,225,000 1,608,000 3,637,000 -	3,644,000 335,000 3,966,000 22,857,000	4,827,000 492,000 4,533,000 11,979,000	8,442,000 1,280,000 7,679,000 12,034,500
LAWTON VALLEY	20,000	-	20,000	37,000	143,000	46,000	89,000	613,000	-	33,000	27,000	19,500
MONTHLY TOTALS DAILY AVERAGE	18,606,150 600,198	21,296,400 709,880	19,866,275 640,848	27,899,400 899,981	32,678,000 1,167,071	14,918,000 481,226	26,198,000 873,267	24,563,000 792,355	10,470,000 349,000	30,835,000 994,677	21,858,000 705,097	29,455,000 981,833
QUARTERLY TOTALS			59,768,825			75,495,400			61,231,000			82,148,000
FY 06												
NRMC BOILER RM NRMC GATE 7 NRMC QTRS H CHI RAISED PIT	- 380,000 1,000 3,300,000	- 43,000 1,000 1,152,000	- 133,000 1,000 6,060,000	- 88,000 1,000 3,913,000	- 110,500 1,000 3,090,000	- 300,000 1,000 1,800,000	- 100,000 1,000 2,000,000	- 422,500 - 1,617,000	- 411,250 2,000 3,984,000	- 250,000 1,000 3,800,000	- 100,000 9,000 3,808,000	- 220,000 2,000 4,012,798
CHI CLOYNE CT FORT ADAMS	200,000 1,000,000	41,000 500,000	114,000 (4,022,816)	189,000 4,311,816	151,500 1,405,494	165,000 1,500,000	150,000 1,000,000	324,500 4,497,888	200,000 3,000,000	170,000 2,000,000	113,090 3,569,367	181,545 1,283,184
MONTHLY TOTALS DAILY AVERAGE	4,881,000 157,452	1, 737,000 57,900	2,285,184 73,716	8,502,816 274,284	4,758,494 169,946	3,766,000 121,484	3,251,000 108,367	6,861,888 221,351	7,597,250 253,242	6,221,000 200,677	7,599,457 245,144	5,699,527 189,984
QUARTERLY TOTALS			8,903,184			17,027,310			17,710,138			19,519,984
CHASE LANE CODD HWY GATE 4 CP GREENE LANE LAWTON VALLEY	3,000,000 3,000,000 3,000,000 6,000,000 10,000	5,000,000 582,000 1,493,000 - -	4,356,000 3,359,000 4,669,000 24,026,750 13,500	6,646,000 3,561,000 4,250,000 12,013,688 6,750	9,581,000 5,756,000 3,817,000 12,017,782	6,000,000 6,000,000 4,000,000 10,000,000 10,000	4,000,000 4,000,000 2,000,000 10,000,000 10,000	3,959,000 6,000,000 3,800,000 4,031,713 14,688	5,000,000 5,000,000 2,500,000 2,207,567 30,082	4,000,000 4,000,000 2,700,000 10,000,000 10,000	8,744,700 - 3,200,000 11,840,000 -	2,000,000 3,000,000 5,200,000 9,000,000 97,480
MONTHLY TOTALS DAILY AVERAGE	15,010,000 484,194	7,075,000 235,833	36,424,250 1,174,976	26,477,438 854,111	31,171,782 1,113,278	26,010,000 839,032	20,010,000 667,000	17,805,401 574,368	14,737,649 491,255	20,710,000 668,065	23,784,700 767,248	19,297,480 643,249
QUARTERLY TOTALS			58,509,250			83,659,220			52,553,050			63,792,180
FY 07												
NRMC BOILER RM NRMC GATE 7 NRMC QTRS H CHI RAISED PIT CHI CLOYNE CT FORT ADAMS	- 262,750 4,000 2,469,498 376,398 2,000,000	161,870 - 2,634,420 197,035	- 80,110 - 2,357,651 194,584 2,867,000	177,020 3,000 2,136,128 195,810	- 65,650 1,000 1,800,250 195,197 835,000	121,000 1,000 1,594,550 195,504	- 400,000 1,000 3,000,000 300,000 1,500,000	209,000 - 2,000,000 90,779 825,000	- 100,000 - 1,500,000 195,390 825,000	- 319,000 3,000 4,000,000 195,409 626,000	- 202,194 1,000 3,500,000 195,400 626,000	- 500,000 3,000 3,200,000 57,839 626,000
MONTHLY TOTALS DAILY AVERAGE	5,112,646 164,924	2,993,325 99,778	5,499,345 177,398	2,511,958 81,031	2,897,097 103,468	1,912,054 61,679	5,201,000 173,367	3,124,779 100,799	2,620,390 87,346	5,143,409 165,916	4,524,594 145,955	4,386,839 146,228
QUARTERLY TOTALS			13,605,316			7,321,109			10,946,169			14,054,842
CHASE LANE CODD HWY GATE 4 CP GREENE LANE LAWTON VALLEY	2,770,020 3,269,780 2,209,851 8,513,379 262,200	10,000,000 2,990,440 3,533,447 8,528,852 94,000	5,000,000 3,327,340 3,550,648 8,000,000 100,000	1,156,280 3,434,660 1,006,704 9,283,465 492,140	2,807,400 2,848,340 1,743,220 8,641,733	4,583,700 4,843,220 3,236,340 8,622,920	3,500,000 5,000,000 3,500,000 4,000,000 10,000	4,608,400 3,493,110 1,603,660 15,400,000	3,464,500 2,179,000 1,827,560 5,200,000 100,000	3,847,600 3,441,280 2,220,720 5,900,000 1,000,000	1,403,900 1,000,000 3,115,850 7,000,000 1,000,000	3,467,900 - 4,478,090 4,900,000 1,000,000
MONTHLY TOTALS DAILY AVERAGE	17,025,230 549,201	25,146,739 838,225	19,977,988 644,451	15,373,249 495,911	16,040,693 572,882	21,286,180 686,651	16,010,000 533,667	25,105,170 809,844	12,771,060 425,702	16,409,600 529,342	13,519,750 436,121	13,845,990 461,533
QUARTERLY TOTALS			62,149,957			52,700,122			53,886,230			43,775,340
FY08												
NRMC GATE 7 CLOYNE CT CHI RSD PIT FORT ADAMS	500,000 57,839 3,200,000 626,000	731,586 200,110 8,386,705 626,000	504,220 290,340 3,242,000 635,500	157,780 268,780 2,026,000 635,000	254,000 157,660 1,877,000 781,000	131,000 137,110 2,265,000 1,033,000	235,000 127,120 2,899,000 1,000,000	211,660 83,330 2,447,000 800,000	457,340 120,220 3,389,000 800,000	713,890 224,094 3,297,183 1,000,000	964,780 2,000 2,571,817 992,000	712,900 61,156 3,133,000 608,000

QTRS H	OCT 3,000	30 NOV 5,000	31 DEC 4,000	31 JAN 3,000	28 / 29 FEB 5,000	31 MAR 2,000	30 APR 5,000	31 MAY 2,000	30 JUN 0	31 JUL 1,000	31 AUG 1,000	30 SEPT 5,000
QIRSH	3,000	5,000	4,000	3,000	5,000	2,000	5,000	2,000	U	1,000	1,000	5,000
MONTHLY TOTALS MONTHLY AVERAGE	4,386,839 141,511	9,949,401 331,647	4,676,060 150,841	3,090,560 99,695	3,074,660 106,023	3,568,110 115,100	4,266,120 142,204	3,543,990 114,322	4,766,560	5,236,167 168,909	4,531,597 146,181	4,520,056
QUARTERLY TOTALS			19,012,300			9,733,330			12,576,670			14,287,820
CHASE LANE CODD HWY GATE 4 GREENE LANE LAWTON VALLEY	3,467,900 - 4,478,090 4,900,000 1,000,000	1,500,000 1,211,500 3,539,890 1,000,000 0	4,873,200 43,780 4,012,890 9,500,000 0	3,527,900 2,557,440 3,482,670 5,700,000 100,000	1,567,004 4,187,097 494,890 6,200,000 100,000	6,301,696 3,370,013 6,732,670 8,300,000 0	3,978,200 4,801,340 3,673,660 7,300,000 159,328	2,672,800 3,767,000 3,895,890 6,200,000 100,000	3,548,700 3,894,220 4,473,440 6,200,000 100,000	2,836,400 2,545,770 4,432,120 7,700,000 0	2,749,300 1,456,560 3,785,000 5,200,000 0	2,951,100 96,780 3,817,790 5,600,000 0
MONTHLY TOTALS DAILY AVERAGE	13,845,990 446,645	7,251,390 241,713	18,429,870 594,512	15,368,010 495,742	12,548,991 432,724	24,704,379 796,915	19,912,528 663,751	16,635,690 536,635	18,216,360 607,212	17,514,290 564,977	13,190,860 425,512	12,465,670 415,522
QUARTERLY TOTALS			39,527,250			52,621,380			54,764,578			43,170,820
FY 09												
NRMC GATE 7 CLOYNE CT	859,980 106,420	729,450 122,220	1,100,550 137,890	440,780 97,660	781,626 125,670	381,130 134,126 2,427,060	221,130 137,614	174,800 221,260	166,740 109,540			

CHI RSD PIT FORT ADAMS QTRS H	2,651,000 600,000 1,000	2,617,000 1,000,000 6,000	3,410,000 967,000 2,000	2,324,000 712,000 3,000	3,000,000 662,000 3,000	2,437,960 967,000 3,000	1,961,940 703,000 3,000	2,501,000 708,000 2,821	2,891,000 750,000 2,741			
MONTHLY TOTAL MONTHLY AVERAGE	4,218,400 136,077	4,474,670 149,156	5,617,440 181,208	3,577,440 115,401	4,572,296 163,296	3,923,216 126,555	3,026,684 100,889	3,607,881 116,383	3,920,021 130,667	-	-	-
QUARTERLY TOTAL			14,310,510			12,072,952			10,554,586			

NSN MELVILLE NORTH SALES (GALLONS)

NSN MELVILLE NORTH SALES (GALLONS)

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Date	Sep-06	Oct-06	Nov-06	Dec-06	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Jul-07	Aug-07	Sep-07				Jan-08	Feb-08		Apr-08		Jun-08		Aug-08	Sep-08	Oct-08	Nov-08	Dec-08	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	
1		75,800	75,420	49,540	52,870	46,220	36,780		27,470	24,210	38580	68,380	43,680	31,200			22,170	32,440			20,180	32,210				113,140			20,590	19,200	17,450	18,330	21,920	26,490	
2		69,580	69,210	56,020	57,190	51,570	35,300		23,970	31,770	40050	51,730	41,410	32,440	- /	22,170		33,520		- 1	19,120	36,790		27,860	22,690	27,210			18,510	- 1	20,940	18,500	22,920	19,330	
3		69,530	57,510	62,220	63,200	59,480			22,730	26,760	51080	66,310	50,870			24,140		35,680			31,860	37,330		32,690	35,240				19,900		17,340	15,240	27,090	18,050	
4		76,540	63,140	59,630	55,030	/	36,740	- /	24,880	25,410	32240	62,480	45,130	/		19,770			39,870	- /	1	18,500		38,680		37,190	- /		- /	, .	16,520	16,770	24,320	20,240	
5		72,860	66,330	60,770	54,060	55,480	31,690		25,230	26,770		61,840	40,480	30,940			22,230			16,990	20,680	20,530	33,140	26,750	- / -		18,570	- /	22,510	18,370	18,030	20,710	17,880	20,350	
6		70,400	64,330	56,900	58,090	50,600	30,690			24,270	37450	44,620	47,360				26,910			20,450	23,850	18,480	33,900	18,760	21,020		20,020	18,430	23,140	15,690	15,050	18,340	20,650	20,240	
/	-	69,750	64,240	66,350	58,500	52,360	27,350			26,920	49960	32,160	49,720	28,680			24,460			19,300	28,090	32,890	51,300	19,580	31,730	22,960			21,010	15,910	15,630	17,790	18,610	26,470	
8		71,080 69,440	56,770	63,160 65.210	61,160	44,070	34,220 35.690		26,610 27.010	28,060 29,550	63700	31,060 42,180	43,690	36,200		22,010	26,950	33,450		18,420	19,490	41,140 55,560	57,230 54,730	19,770 25,230	21,920 17,930		19,280	20,940	20,610		18,980 17.260	18,250	19,090	25,230 29.000	
9		69,440	60,860		59,180	44,870 50,750	42.810		28,930		44160	,	45,440	30,690 33,360				34,870		18,790 18.050	16,920 19.410	48,760							- /	1	18.350	16,850	20,710	29,000	
10		72.250	60,182 64.568	65,200 57,130	65,230 70,260	50,750	34,200	/	26,930	39,150 30,190	54430 38320	28,880 33,230	35,140 32,800	30.080	19,510		29,290 27.750	/			23.040	46,760	43,130 44,510	25.090	21,610 20,740		17,810 23.060		17,960	17,460	16,800	15,020 14,820	23,020 20.500	23,850	
12		73,400	66,250	57,130	67.140	53,180	34,200			34,150	39590	39,480	35,740	31,650		20.830			40,750		18.690	40,120	56.670	18,770	20,740		20,480		24,390	19,040	18.060	16.920	19,110	21,100	
12		58,150	71,170	56,750	42.170	59.470	29.880		35,530	31,150	45430	31,510	35,200	30.870		21,180			21,990		20,360	42.890	42.610	20,310	19,490	- /	- /	, .	24,310	- 1	14,780	16,320	20,100	22.140	
10		67,970	59,730	59,430	44,400	58,360				43.860	52920	22.310	33,970	32,460			29.780	33.510			22,990	42,000	50.820	18.080	22.520		17.120				15.820	14.220	18.280	29.020	
15	s	68,120	65,500	60,250	49,460	63.390		1	26,440	39.870	49630	37,900	32,800	37.880	19.610		32.410	32.970		- 1	20,700	21.690		19,420	21,580	,	22,030	, .	18,120	-1	19,490	13,710	20,400	25.090	
16	M	57,830	59,270	63,150	40.000	58.350	25,120	- /	22,600	44.120	41440	28,890	36,670	34.010	17,200					1	18,710	21,780	88,070	- 1	30,260				17.220	- 1	19,600	14,960	21.050	23.640	
17	Т	61,180	56,570	61,260	49,330	46,400	29,140		27.810	40.530	43590	30,320	33,690				32.520			1	20.040	20.910	61,920		36,220		19.820		19.040	16.540	17.940	14.630	23,850	26.050	
18	W	53,870	55,860	59,230	46,080	48,170	35,530	28,800	30,740	42,460	31140	31,070	35,580	30,590	21,930	21,070	31,040	35,710	16,780	16,980	27,160	31,660	51,770	30,470	24,580	22,910	19,620	20,320	24,450	14,870	19,290	16,100	22,370	23,280	
19	Т	55,910	60,440	55,170	36,230	54,370	29,430	29,110	36,600	39,550	34340	32,840	33,870	31,480	20,030	21,450	31,060	35,110	18,110	25,480	20,870	25,780	47,960	23,680	33,460	22,500	20,310	18,730	52,370	15,950	18,800	22,830	19,960	24,050	
20	F	57,590	64,280	62,330	50,130	47,320	24,960	25,470	40,480	25,160	37910	31,770	39,950	31,830	21,330	21,990	30,410	35,160	14,550	24,550	22,230	30,070	48,950	35,980	34,830	22,960	21,200	18,870	31,860	14,390	14,610	17,320	19,470	27,130	
21	S	50,730	61,280	70,370	45,960	50,440	26,370	28,130	36,330	42,910	44980	35,300	29,890	33,990	20,500	21,850	34,520	38,990	14,480	21,440	20,520	52,430	61,220	33,400	38,630				18,100	14,710	22,200	17,780	20,950	24,220	
22	-	65,750	53,110	70,430	48,240	33,650	29,320		41,320	28,310	52990	31,610	41,070	96,770	19,380		58,460				19,040	32,720		42,670	37,490	22,170					20,020	16,910	21,280	27,870	
23		58,910	53,100	66,300	41,940	36,270	22,560	- /	37,180	38,590	35730	34,020	35,660	42,880		19,740		36,260			21,330	37,920		40,520	35,580	20,480			14,190		19,030	17,220	19,960	27,130	
24		68,300	55,200	62,220	48,160	36,780	24,140		36,840	37,520	53030	39,420	37,320		16,720			37,950			27,800	21,400	24,220	- 1	34,920		19,750		17,000		17,440	20,590	20,640	22,640	
25		67,300	56,840	64,310	46,570	35,950	29,500		43,050	39,820	48780	54,180	34,730		20,060		30,680				23,570	41,980		31,400		23,950		- /	21,410	16,910	19,450	22,690	28,080	23,790	
26		57,770	61,440	58,180	44,900	44,020	25,910			42,420	48010	56,010	36,810	33,870			32,390				27,000	26,590	44,460	37,410	17,540		18,250		19,520		18,570	31,620	21,870	20,510	
27		57,280	57,220	55,000	51,550	43,080	25,320		- 1	33,720	43740	49,550	29,360	35,090		20,240			17,990	- 1	21,950	29,010	30,680	22,510	22,500	,				15,470	14,080	23,910	19,320	25,920	
28		63,500	60,680	50,040	58,260	42,470	27,120		41,230	36,520	56660	43,890	28,080	37,520			35,410				20,170	43,250	30,230	33,510	22,000		17,160		17,010	16,530	18,540	25,600	21,170	22,510	
29	57,190	64,470	52,260	53,430	49,860				34,180	31,590	49930	36,260	33,670	29,890	20,440		33,300	35,970		- /	25,740	35,170	37,190	38,630	22,480		18,990	19,060	20,490		20,490	23,040	18,220	25,050	
30	84,870	67,270 64,500	54,420	59,000 58,000	53,440 57,400		29,990	24,620	34,470 33,230	53,250	44710 54460	43,720 36,850	32,070	24,540 23.170		19,180	33,560		18,710 17,180	29,240	24,330 25.030	40,540		21,930	27,508	19,940 17,490	20,980	20,250 20,820	16,020 17,540		21,780 19,360	19,650	24,650 29,430	24,950	
TOTAL	142.000	2.,222	1.827.180	,		1 074 000	940.380	045 770 (33,230 992,250	1 038 560		.269.770	4 404 050	- 1 -			,	001 010	1	224.040	-1	1 035 450		1	040 040	1	000 400		/	400 700	- 1	EEC 000	-,	746 500	
AVERAGE	142,060 71.030	2,024,740 65,314	60.906	1,864,200 60,135	1,625,990 1 52.451	48,986	30.335	,	32.008	34.619	1,389,680 1 44.828	40.960	1,131,850 37,728	1,087,000 35.065	001,100		51,460 1		801,790 6 25,864		22.515	34.515		891,300 28,752	810,248 27.008	806,170 26.005	20.004		659,620 21,278	489,720 5	561,700	19 555	666,870	716,580 23.886	
MAXIUM	84,870	76,540	75,420	70,430	70,260	63,390	42,810		47,230	53,250	63,700	68,380	50,870	96,770		21,095 26,360	58,460		40,980		31,860	55,560	88,070	43,260	,	113,140	20,004 24,070		52,370	22,620	22,200	31,620	29,430	29.020	
W/ (ATOW	119%	117%	124%	117%	134%	129%	141%		148%	154%	142%	167%	135%	276%	120%	125%	190%	111%	158%	154%	142%	161%	194%	150%	143%	435%	120%	114%	246%	129%	123%	170%	137%	121% #DIV/0	1
	. 10 /0	. 17 70	.2470	. 17 70	.3470	.2070	. 4170	2 /0	. 7070	.0470	. 7270	.5170	10070	21070	.2070	.2070					2 /0	.5170	.0470		14070	.5070	.2070	. 1470	2.070	070	.2370		.0770	.2.75 #01070	

		867,483	705,670
TOTAL 142,060	16,534,050		
AVERAGE 71,030	45,298.77	32,046.42	
FY06	FY07	FY08	FY09

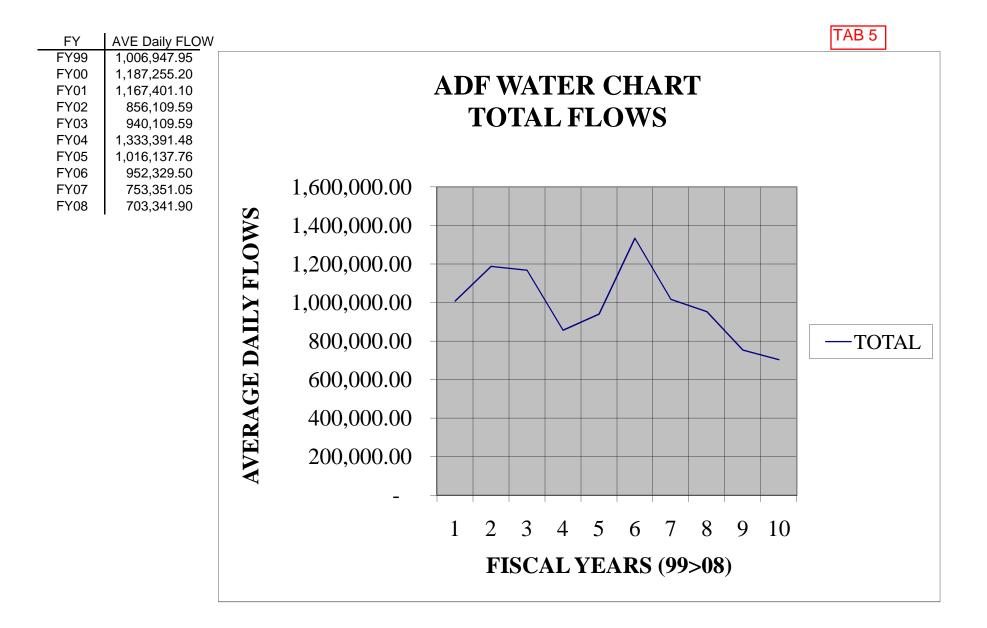
5,663,580 20745.714 TAB 3

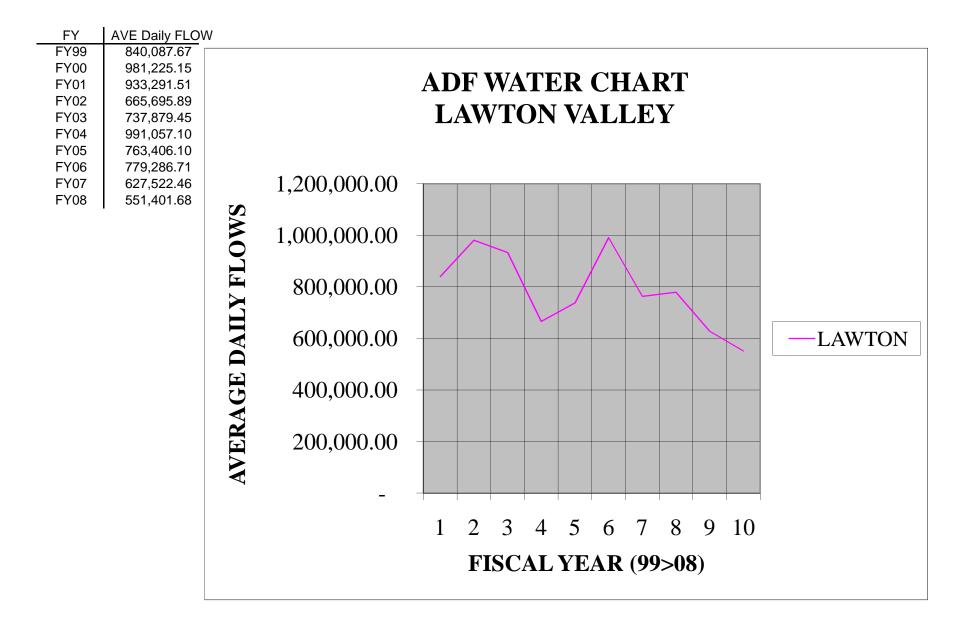
32,794,768 32599 50797 155%

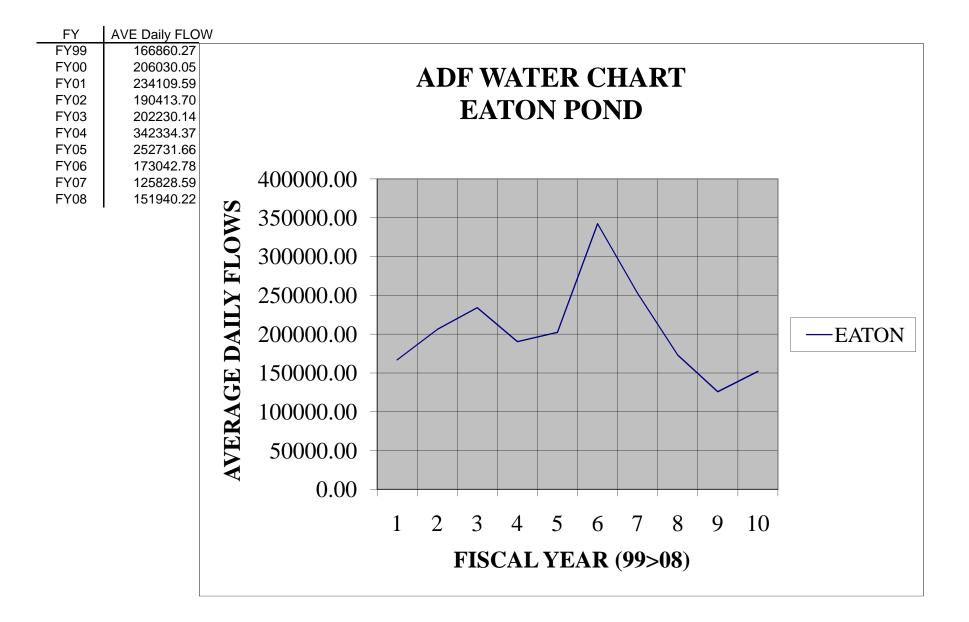
TAB 4

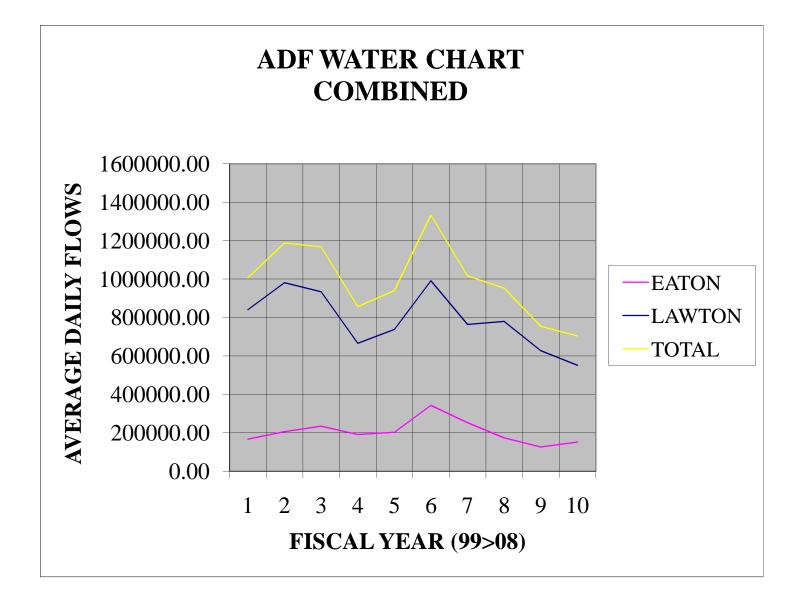
ſ	Fort Adams	Green Lane	Chases Lane	Anchorage	Lawtons Valley	Training Station Rd	Cloyne Court	Bowlers Gate
	ID# 81892010	ID# 81764462	C# 30355	C# 29725	ID# 81831196	C# 16536	C# 29730	C# 30133
1-Jun-09	26536000	17100000	442444100	447213430	1000	516683000 89.000	19925540	333529090
2-Jun-09	23,000 26559000	100,000 171100000	102,700 442546800	3,780 447217210	- 1000	89,000 516772000	30,980 19956520	115,230 333644320
	26,000	200,000	67,600	45,550	-	85,000	3,580	114,890
3-Jun-09	26585000	171300000	442614400	447262760	1000	516857000	19960100	333759210
4-Jun-09	<u>29,000</u> 26614000	100,000 171400000	<u>64,300</u> 442678700	32,450 447295210	- 1000	108,000 516965000	3,330 19963430	116,220
4-Jun-09	26614000	200.000	92.600	447295210 39.990	1000 -	98.000	3,370	333875430 102.070
5-Jun-09	26642000	171600000	442771300	447335200	1000	517063000	19966800	333977500
	22,000	100,000	54,100	63,560	-	81,000	2,520	102,930
6-Jun-09	26664000	171700000	442825400	447398760	1000	517144000	19969320	334080430
7-Jun-09	31,000 26695000	200,000 171900000	59,100 442884500	44,980 447443740	- 1000	72,000 517216000	2,660 19971980	91,670 334172100
7-041-05	35,000	100,000	79,500	38,800	-	86,000	3,890	115,550
8-Jun-09	26730000	172000000	442964000	447482540	1000	517302000	19975870	334287650
	27,000	200,000	69,400	51,890	-	96,000	31,230	101,670
9-Jun-09	<u>26757000</u> 21,000	172200000 100,000	443033400 62,600	447534430 57,220	1000	517398000	20007100 29,550	334389320
10-Jun-09	26778000	172300000	443096000	447591650	1000	91,000 517489000	29,550	131,890 334521210
10 0 411 00	20,000	200,000	79,900	27,440	-	103,000	36,440	117,330
11-Jun-09	26798000	172500000	443175900	447619090	1000	517592000	20073090	334638540
40 1 00	23,000	100,000	85,500	34,450	-	128,000	34,120	121,550
12-Jun-09	26821000 21.000	172600000 200,000	443261400 65.500	447653540 43.330	1000	517720000 93.000	20107210 53.660	334760090 101.890
13-Jun-09	26842000	172800000	443326900	43,330	1000	517813000	20160870	334861980
	26,000	100,000	66,100	35,230	-	78,000	38,340	86,110
14-Jun-09	26868000	172900000	443393000	447732100	1000	517891000	20199210	334948090
15-Jun-09	28,000 26896000	200,000 173100000	<u>84,600</u> 443477600	34,660 447766760	- 1000	105,000 517996000	43,550 20242760	120,230 335068320
15-Jun-09	20,000	100,000	59,700	51,560	-	93,000	37,340	113,770
16-Jun-09	26916000	173200000	443537300	447818320	1000	518089000	20280100	335182090
	23,000	200,000	77,400	35,780	-	94,000	34,440	111,340
17-Jun-09	26939000	173400000	443614700	447854100	1000	518183000	20314540	335293430 120.780
18-Jun-09	24,000 26963000	100,000 173500000	70,900 443685600	43,770 447897870	1000	110,000 518293000	3,560 20318100	335414210
10 0 0 10 00	18,000	100,000	61,500	38,110	-	88,000	3,110	109,110
19-Jun-09	26981000	173600000	443747100	447935980	1000	518381000	20321210	335523320
	18,000	200,000	70,200	53,340	-	101,000	2,440	100,440
20-Jun-09	26999000 28,000	173800000 200,000	443817300 72,000	447989320 46.280	1000	518482000 105,000	20323650 3,950	335623760 95.040
21-Jun-09	27027000	174000000	443889300	448035600	1000	518587000	20327600	335718800
	17,000	100,000	59,400	37,940	-	80,000	3,160	84,850
22-Jun-09	27044000	174100000	443948700	448073540	1000	518667000	20330760	335803650
23-Jun-09	20,000 27064000	100,000 174200000	<u>60,100</u> 444008800	47,460 448121000	- 1000	93,000 518760000	3,000 20333760	116,052 335919702
23-3uii-03	16,000	200,000	61,600	440121000	-	105,000	13,220	102,278
24-Jun-09	27080000	174400000	444070400	448162540	1000	518865000	20346980	336021980
	17,000	100,000	62,000	46,560	-	44,000	4,000	113,780
25-Jun-09	27097000	174500000	444132400	448209100	1000	518909000	20350980	336135760
26-Jun-09	<u>17,000</u> 27114000	200,000 174700000	<u>63,900</u> 444196300	47,660 448256760	1000	80,000 518989000	10,120 20361100	105,890 336241650
	19,000	100,000	71,600	43,140	-	78,000	2,700	111,550
27-Jun-09	27133000	174800000	444267900	448299900	1000	519067000	20363800	336353200
00 1	15,000	200,000	73,400	50,033,750	-	58,000	3,290	84,890
28-Jun-09	27148000 18,000	17500000 100,000	<u>444341300</u> 67,000	498333650 (49,972,560)	1000	519125000 66,000	20367090 3,000	336438090 86,450
29-Jun-09	27166000	175100000	444408300	448361090	1000	519191000	20370090	336524540
	19,000	200,000	66,800	44,010	-	75,000	2,780	97,000
30-Jun-09	27185000	175300000	444475100	448405100	1000	519266000	20372870	336621540
TOTAL	649,000	4,300,000	2,031,000	1,191,670	0	2,583,000	447,330	3,092,450
AVE DAILY	21633	143333	67700	39722	0	86100	14911	103082
MAX DAY	35000	200000	102700	57220		128000	53660	121550
		QUESTION THE				q	QUESTION THE	
		READINGS					READINGS	
	161.79%		151.70%	144.05%		148.66%	359.87%	117.92%

14,294,450









PWFD 2-4: Referring to Newport Water's Response to Data Request PWFD 1-12, and in light of the activity described in part (a) of that response that Newport Water asserts decreased the available balance at the end of July 2016:

a. Please provide an update to the Capital Plan for 2016 that is presented on the "2016 CIP" tab of Newport Water's rate model.

b. Please provide updates for all subsequent years that reflect the increased costs.

c. Please reconcile the \$1,974,665 in projected deductions from the Capital Account (called "Vendor Payments" on the "Cap Restricted Cash Flow" tab of the spreadsheet) for FY 2016 with the \$3,243,200 in rate financed capital set forth in the Capital Plan (see "2016 CIP" tab).

Response: a. There is no update to the Capital Improvement Plan presented on the "2016 CIP" tab of the electronic version of the rate model.

b. See response to a. above.

c. The schedules on the "Cap Restricted Cash Flow" tab of the cost of service model were not submitted as testimony and were never intended to be. As such, the information in these schedules was not updated prior to the submission of the rate filing. Versions of these schedules updated through December 31, 2015 were prepared for Newport's response to Commission Data Request 1-24. As shown in those schedules the sum of the Actual and Projected "Vendor Payments" for FY 2016 is \$3,243,200.

Prepared by: Harold Smith

PWFD 2-5: Is NWD seeking any step increase as part of this filing?

- a. If so, how much?
- b. If not, why not?

Response: a. No.

b. Newport filed for a step increase in Docket 4243 to fund extensive borrowings for the new Lawton Valley Treatment Plant and improvements to the Station One Plant. The same circumstances were not present in this rate filing. Newport assumes that this question is directed toward Newport's requested increase for Capital Spending. Newport did not request a multi-year step increase because it used a multi-year average of future Capital Spending requirements consistent with past Dockets.

Prepared by: Harold Smith

- **PWFD 2-6:** Referring to Newport Water's Response to Data Request Comm. 1-24, which states that the requested amount for Capital Spending is the average of FY 2016 through FY 2021, please identify the authority upon which you rely to use projections that run four years beyond the rate year, including without limitation any provisions in the Commission Rules that authorize the use of such projections.
- **Response:** Newport used a multi-year average for the Capital Spending Account consistent with past Dockets. For example, in Docket 4025 both PWFD and the Division suggested that Newport fund its Capital Spending Account based on multi-year averages. Please also see Rule 2.6 (c) of the Commission's Rules of Practice and Procedure.

Prepared by: Harold Smith

PWFD 2-7: Please explain why Newport Water used the FY 2014 budget to derive expenses to be allocated to the Water Fund and did not use the actual costs for FY 2014.

a. Please provide an analysis using actual costs for FY 2014.b. Please provide an analysis using actual costs for FY 2015, considering that FY 2015 is the test year.

Response: The Newport Finance Department did actual counts as of November 4, 2014. The counts were, primarily, of items in FY2014 that began on July 1, 2013 and ended on June 30, 2014. The current (at that time) FY2015 budget was used for the allocation. The 2014 Comprehensive Annual Financial Report with the audited actual operating results for FY2014 was filed on December 31, 2014, after the allocation was completed.

The analyses using FY2014 and FY2015 actual results are attached, along with the supporting schedules. As set forth in these schedules, the allocations to Newport Water would be higher in both cases than the amounts used in the rate filing.

Prepared by: Laura Sitrin

See Cost Allocation Manual for Methodology and Discussion

Allocated Item	Cost To Be Allocated	Water Percent	Water Fund
Audit Fees	68,500	6.18%	4,233
OPEB Contribution (1)	500,000	3.84%	19,200
City Council	128,246	3.42%	4,386
City Clerk	390,713	1.00%	3,907
City Manager	396,433	14.18%	56,214
Human Resources	304,954	1.74%	5,306
City Solicitor	321,800	14.18%	45,631
Finance Admin 50%	200,418	14.18%	28,419
Finance - 5% RICWFA	6,155	50.00%	3,078
Finance Admin 10% Inv/Debt	40,084	30.77%	12,334
Purchasing	87,454	18.47%	16,153
Collections	307,979	21.50%	66,215
Accounting - Wires - 5%	12,738	70.00%	8,917
Accounting	396,459	10.97%	43,492
MIS	1,390,225	14.18%	197,134
Totals	4,552,158		514,619

(1) Based on July 1, 2014 Actuarial Report

City Council Actual Costs
Based on FY2014 and FY2015 Actual Operating Results

PWFD 2-7 Schedule A-1

	FY2014	FY2015
Total Mayor and City Council Expenditures	129,122	100,685
Less: Public Celebrations	-	_
Navy Affairs Expense Board of Tenant Affairs	276 600	322 810
Total	128,246	99,553

City Clerk Actual Expenditures Based on FY2014 and FY2015 Actual Operating Results	PWFD 2-7 Schedule A-2	
	FY2014	FY2015
Total City Clerk	468,908	376,217
Less: Probate Court Salary and Benefits as of 10/15/14	78,195	78,195
Total	390,713	298,022

City Solicitor Actual Expenditures Based on FY2014 and FY2015 Actual Operating Results	PWFD 2-7 Schedule A-3	
	FY2014	FY2015
Total City Solicitor	461,772	370,009
Less: Salaries and Benefits Municipal Court Assistant Solictor, Municipal Court Judge and Probate Judge as of 10/15/14	139,972	- 139,972
Total	321,800	230,037

Finance Admin and Purchasing Actual Expenditures Based on FY2014 and FY2015 Actual Operating Results		PWFD 2-7 Schedule A-4
	FY2014	FY2015
Finance Admin Costs	413,340	438,678
Less: 10% of Salary and Benefits of Senior Accountant	12,505	12,505
Total	400,835	426,173
To Be Allocated as Follows: 50% of costs based on Percentage of Budget 10% of costs based on Investment Counts Balance not to be allocated	200,418 40,084 160,334	213,087 42,617 170,469
RIIB (formerly RICWFA) Allocation 5% of salary for Budget and Finance Analyst	6,155	6,155
Purchasing Costs	87,454	92,795

Collections Actual Costs Based on FY2014 and FY2015 Actual Operating Results	PWFD 2-7 Schedule A-5		
	FY2014	FY2015	
Collections Actual Costs	307,979	312,923	
Allocation Expense per Last Approved Rate Filing of 21.5%	66,215		
Timesheet percentage of 11.6%		36,299	

Accounting Actual Costs Based on FY2014 and FY2015 Actual Operating Results		PWFD 2-7 Schedule A-6
	FY2014	FY2015
Accounting Actual Costs	409,197	411,500
To be allocated as follows:		
5% allocation for wires	12,738	12,738
95% allocation based on check counts	396,459	398,762

Controller and Senior Accountant Salaries and Benefits	254,753	254,753
5% allocation for wires	12,738	12,738

MIS Actual Costs	PWFD 2-7
Based on FY2014 and FY2015 Actual Operating Results	Schedule A -7

	FY2014	FY2015
MIS Operating Budget	1,308,602	1,436,875
Less:		
School Share of ERP System	131,673	151,848
Vision Appraisal Web Hosting	3,200	3,200
Judicial Case Software	5,795	5,795
Maritime Domain	80	80
Boston Computer Scanning	2,000	2,000
Copiers	20,000	20,062
Equipment	52,000	62,000
Subtotal	214,748	244,985
Total MIS Operating Budget to Allocate	1,093,854	1,191,890

Capital Budget:	296,371	422,773
	1,390,225	1,614,663

ERP System:		
Lawson	93,450	93,450
Velocity	192,682	237,517
MHC	6,474	6,474
	292,606	337,441
45% to Schools	131,673	151,848

City of Newport Cost Allocation - Percentage of Budgets Based on Actual Results for FY2014

PWFD 2-7 Schedule A-8

	FY2014 Actual Results	Less School	Less Civic Support	Less Debt Service	Less Capital		Percentage
General Fund	84,322,270	18,367,326	1,813,725	4,552,191	4,573,036	55,015,992	71.07%
Water Fund Total Operating Expenses	10,979,297	-	-	Already removed	Already removed	10,979,297	14.18%
WPC Fund	9,311,164			-	-	9,311,164	12.03%
Maritime Fund	795,943				-	795,943	1.03%
Parking Fund	1,311,463					1,311,463	1.69%
Total	106,720,137					77,413,859	
School Appropriation:	22,959,157						
20% appropriation left in general fund	4,591,831						
	18,367,326						

See Cost Allocation Manual for Methodology and Discussion

Allocated Item	Cost To Be Allocated	Water Percent	Water Fund
Audit Fees	68,500	6.18%	4,233
OPEB Contribution (1)	500,000	3.84%	19,200
City Council	99,553	3.42%	3,405
City Clerk	298,022	1 .00 %	2,980
City Manager	480,674	12.79%	61,478
Human Resources	336,556	1.74%	5,856
City Solicitor	230,037	12.79%	29,422
Finance Admin 50%	213,087	12.79%	27,254
Finance - 5% RICWFA	6,155	50.00%	3,078
Finance Admin 10% Inv/Debt	42,617	30.77%	13,113
Purchasing	92,795	18.47%	17,139
Collections	312,923	11.60%	36,299
Accounting - Wires - 5%	12,738	70.00%	8,917
Accounting	398,762	10.97%	43,744
MIS	1,614,663	12.79%	206,515
Totals	4,707,082		482,633

(1) Based on July 1, 2014 Actuarial Report

City of Newport Cost Allocation - Percentage of Budgets Based on Actual Results for FY2015

PWFD 2-7 Schedule B-1

	FY2015 Actual Results	Less School	Less Civic Support	Less Debt Service	Less Capital		Percentage
General Fund	86,530,351	18,701,726	1,851,475	5,020,694	4,044,900	56,911,556	72.10%
Water Fund Total Operating Expenses	10,091,631	-	-	Already removed	Already removed	10,091,631	12.79%
WPC Fund	9,471,298			-	-	9,471,298	12.00%
Maritime Fund	998,983				-	998,983	1.27%
Parking Fund	1,457,049					1,457,049	1.85%
Total	108,549,312					78,930,517	
School Appropriation:	23,377,157						
20% appropriation left in general fund	4,675,431						
	18,701,726						

- **PWFD 2-8:** Referring to Newport Water's Response to Data Request PWFD 1-14 (c), and specifically the explanation that Newport Water did not use FY 2016 or FY 2017 budgets because "the City does periodic counts to determine allocations to enterprise funds":
 - a. Considering new "counts" were used for items such as City Council (minutes), Finance Administration (bond issues), Collections (hours), Accounting Wires (# of wires), Accounting (deposits), OPEB, and Purchasing, why not use the more recent budgets?
 - Please provide a copy of the City Services analysis using the current (FY 2016) and proposed (FY 2017) budgets. For items where new "counts" were not done, please use the older or existing "counts".
- **Response:** a. With regard to the "new counts":

• Council minutes were reviewed beginning with the July 10, 2013 Council meeting and ending with the June 25, 2014 Council meeting.

• Finance Administration bank and investment accounts were tallied as of November 4, 2014.

• The Collection calculation was done in January 2015 in order to use Collection timesheets for December 2014, the only available at the time, since lockbox services didn't begin until October 2014.

- The OPEB Valuation was as of July 1, 2014.
- The accounting wires were counted using FY2014 wires.
- Accounting Deposits are not applicable since they are not used for any allocations.

• The count of purchase orders was for the period beginning 07/01/13 through 06/30/14.

The FY2015 Budget was used because that was the budget we were operating under at the time of the counts.

b. See Attached.

Prepared by: Laura Sitrin

Allocated Item	Cost To Be Allocated	Water Percent	Water Fund
Audit Fees	70,555	6.18%	4,360
OPEB Contribution (1)	500,000	3.84%	19,200
City Council	91,495	3.42%	3,129
City Clerk	368,599	1.00%	3,686
City Manager	550,699	13.79%	75,941
Human Resources	328,818	1.74%	5,721
City Solicitor	402,321	13.79%	55,480
Finance Admin 50%	227,338	13.79%	31,350
Finance - 5% RICWFA	6,248	50.00%	3,124
Finance Admin 10% Inv/Debt	45,468	30.77%	13,991
Purchasing	94,830	18.47%	17,515
Collections	41,029	100.00%	41,029
Accounting - Wires - 5%	12,998	70.00%	9,099
Accounting	439,538	10.97%	48,217
MIS _	1,622,559	13.79%	223,751
Totals	4,802,495		555,594

(1) Based on July 1, 2014 Actuarial Report

City Council Actual Costs Based on FY2016 and FY2017 Budget		PWFD 2-8 Schedule A-1
	FY2016	FY2017

Total Mayor and City Council Expenditures	94,655	95,422
Less: Public Celebrations Navy Affairs Expense Board of Tenant Affairs	- 910 2,250	- 910 2,250
Total	91,495	92,262

City Clerk Actual Expenditures Based on FY2016 and FY2017 Budget		PWFD 2-8 Schedule A-2
	FY2016	FY2017
Total City Clerk	447,830	459,420
Less: Probate Court Salary and Benefits as of 10/15/14	79,231	91,175
Total	368,599	368,245

City Solicitor Actual Expenditures Based on FY2016 and FY2017 Budget		PWFD 2-8 Schedule A-3
	FY2016	FY2017
Total City Solicitor	545,794	557,677
Less: Salaries and Benefits Municipal Court Assistant Solictor, Municipal Court Judge and Probate Judge as of 10/15/14	143,473	* 143,595
Total	402,321	414,082

Finance Admin and Purchasing Actual Expenditures Based on FY2016 and FY2017 Budget		PWFD 2-8 Schedule A-4
	FY2016	FY2017
Finance Admin Costs less Purchasing	467,561	458,457
Less:		
10% of Salary and Benefits of Senior Accountant	12,886	12,886
Total	454,675	445,571
To Be Allocated as Follows:		
50% of costs based on Percentage of Budget	227,338	222,786
10% of costs based on Investment Counts	45,468	44,557
Balance not to be allocated	181,870	178,228
RIIB (formerly RICWFA) Allocation		
5% of salary for Budget and Finance Analyst	6,248	6,155
Purchasing Costs	94,830	112,547

Collections Actual Costs Based on FY2016 and FY2017 Budget		PWFD 2-8 Schedule A-5
	FY2016	FY2017
Collections Actual Costs	353,698	364,532
Timesheet percentage of 11.6%	41,029	42,286

Accounting Actual Costs Based on FY2016 and FY2017 Budgets	PWFD 2-8 Schedule A-6	
	FY2016	FY2017
Accounting Actual Costs	452,536	463,345
To be allocated as follows:		
5% allocation for wires	12,998	13,508
95% allocation based on check counts	439,538	449,837

Controller and Senior Accountant Salaries and Benefits	259,958	270,154
5% allocation for wires	12,998	13,508

MIS Actual Costs Based on FY2016 and FY2017 Budget

PWFD 2-8 Schedule A -7

	FY2016	FY2017
MIS Operating Budget	1,609,280	1,606,163
Capital Budget	354,524	271,071
Less:		
School Share of ERP System	139,681	162,377
Other	10,515	10,815
Vision Appraisal Web Hosting	6,400	6,900
Judicial Case Software	520	520
Maritime Domain	80	80
Boston Computer Scanning	2,000	2,000
Copiers	14,925	13,125
Equipment in Capital that is not applicable	167,124	22,571
Subtotal	341,245	218,388
Total MIS Operating Budget to Allocate	1,622,559	1,658,846

ERP System:		
Lawson	98,322	113,030
Velocity	203,981	239,407
MHC	8,100	8,400
	310,403	360,837
45% to Schools	139,681	162,377

City of Newport Cost Allocation - Percentage of Budgets Based on FY2016 Adopted Budget

PWFD 2-8 Schedule A-8

	FY2016 Adopted Budget	Less School	Less Civic Support	Less Debt Service	Less Capital		Percentage
General Fund	88,995,459	19,449,794	1,896,223	5,360,272	3,522,431	58,766,739	71.48%
Water Fund Total Operating Expenses	20,647,293	-	-	6,810,179	2,499,743	11,337,371	13.79%
WPC Fund	19,897,115			3,003,197	7,086,590	9,807,328	11.93%
Maritime Fund	1,050,138				200,000	850,138	1.03%
Parking Fund	1,944,251				490,000	1,454,251	1.77%
Total	132,534,256					82,215,827	
School Appropriation: 20% appropriation left in general fund	24,312,243 4,862,449 19,449,794						

Allocated Item	Cost To Be Allocated	Water Percent	Water Fund
Audit Fees	73,771	6.18%	4,559
OPEB Contribution (1)	500,000	3.84%	19,200
City Council	92,262	3.42%	3,155
City Clerk	368,245	1.00%	3,682
City Manager	586,235	13.96%	81,838
Human Resources	335,842	1.74%	5,844
City Solicitor	414,082	13.96%	57,806
Finance Admin 50%	222,786	13.96%	31,101
Finance - 5% RICWFA	6,155	50.00%	3,078
Finance Admin 10% Inv/Debt	44,557	30.77%	13,710
Purchasing	112,547	18.47%	20,787
Collections	42,286	100.00%	42,286
Accounting - Wires - 5%	13,508	70.00%	9,456
Accounting	449,837	10.97%	49,347
MIS	1,658,846	13.96%	231,575
Totals	4,920,959		577,424

(1) Based on July 1, 2014 Actuarial Report

City of Newport Cost Allocation - Percentage of Budgets Based on FY2017 Proposed Budget

PWFD 2-8 Schedule B-1

	FY2017 Proposed Budget	Less School	Less Civic Support	Less Debt Service	Less Capital		Percentage
General Fund	90,792,669	19,936,039	1,941,111	5,307,610	3,766,442	59,841,467	70.87%
Water Fund Total Operating Expenses	20,845,221	-	-	6,839,199	2,221,657	11,784,365	13.96%
WPC Fund	30,153,962			3,161,383	16,517,500	10,475,079	12.41%
Maritime Fund	1,048,429				190,000	858,429	1.02%
Parking Fund	1,802,868				326,000	1,476,868	1.75%
Total	144,643,149					84,436,208	
School Appropriation: 20% appropriation left in general fund	24,920,049 4,984,010 19,936,039						

- **PWFD 2-9:** Has NWD updated the Cost Allocation Manual that was approved by the Commission? If so, please provide a copy with all changes highlighted or noted.
- **Response:** The Cost Allocation Manual is attached. Please note that there are many wordsmithing and organizational changes that do not change the method of allocation. The changes from the 2008 Manual were not highlighted in the new manual, thus it is impossible to provide a version with each change highlighted or noted. Please also note that this document is the City's Allocation Manual used for all enterprise funds, and that specific Water Fund allocations approved or disapproved by the Public Utilities Commission are not necessarily included or changed in the Manual itself, but are incorporated by the City of Newport when the Water Fund's share is allocated.

Prepared by: Laura Sitrin

CITY OF NEWPORT COST ALLOCATION MANUAL

Prepared by: Finance Department Updated October 27, 2014 City of Newport Cost Allocation Process General Fund Costs to Other Funds

Audit: The audit covers all funds and the school department. The process is to get an estimate from the auditors every three years as to how much time was spent on each fund. That time will be billed back to each fund. The percentage will be carried forward in the two in-between years unless significant issues arise in a particular fund. Costs related to any such issues will be requested from the auditor.

Other Post-Employment Benefits (OPEB): The City has established an OPEB Trust and is making an annual required contribution (ARC) as determined by the City's actuaries. The actuarial report includes a schedule that shows the total liability by fund and or department. Each fund will be responsible for its share of the ARC on an annual basis.

Affiliated Organizations: The Newport School Department is combined with the City for financial reporting but is a separate and distinct organization with its own elected board, administration and staff. The Newport Public Library no longer qualifies as a component unit under governmental standards. The only interaction with the City is when the Council appropriates civic support and capital funding that helps supplement their revenue.

City Council: The City Council is elected by residents to enact legislation, establish policy and to lend support to various civic causes. The Council is the policy setting board for all funds. Some funds have Council appointed commissions which assist them, but all authority rests with the City Council. The Council is responsible to approve all legal budgets for the City and to approve all contracts over \$10,000. They also approve all bargaining contracts.

The expenditure lines of salaries and benefits, temporary services, dues and subscriptions and office supplies will be allocated to all funds on the basis of the fund's share of items addressed at the Council meetings for a fiscal year. That count is required to be done every three years. An additional cost allocation may be made for the fund's number of hours spent in workshops to the total number of hours in workshops, not including budget and CIP workshops. Those discussions relate to all funds and will be eliminated from the total workshop hours for purposes of calculating the percentage. Note that items applying to all funds such as budget public hearings or discussions of labor contracts for AFSCME or NEA will not be counted.

The Citizen Survey cost will only be allocated, in arrears, if a question was specific to the appropriate fund. The allocation will be the number of fund-specific questions to total questions.

City Clerk: The City Clerk serves as the Clerk of the Council and other State mandated functions. The Clerk gives notice of the meetings, certifies by signature all actions of the Council and prepares all official minutes of Council meetings and workshops. The City Clerk also has the official copy of all contracts.

Costs from the City Clerk will be allocated in the same manner as those allocated for the City Council. The allocated costs will be salary and benefits, legal ads generally required by State and local law, contract services (generally consist of costs of taping meetings for public television) and operating and office supplies. Any probate costs included in these accounts will be removed prior to allocation.

City Manager: The City Manager is the chief administrative officer of the City. The City Manager carries out the policies and goals of the City Council and performs the administrative functions of City government. The City Manager is responsible for hiring, firing and evaluating all City staff. All Department Directors report directly to the City Manager. The Human Resources and Special Events divisions are under the City Manager. The Office of Human Resources responsibilities include employee relations; safety and other training programs; compliance with the provisions of various labor contracts; City Manager representative in union grievance proceedings and arbitrations; benefits administration; municipal recruitment and selection; promotional and entry-level civil service testing procedures and implementation; updates and adherence to local, state and federal labor laws; administration of Workers' Compensation and Return-To-Work programs; and certification of employment records. The Special Event Division accumulates general fund costs related to specific events held in the City. It is not allocable to the other funds.

All costs in the City Manager division will be allocated to other funds on the basis of the percentage of the fund's budget to the combined total budgets. For this purpose, appropriations for the school and other civic support will be removed from the budget in determining the percentages as the City Manager does not provide administration to any of these organizations.

All costs in the Human Resources division will be allocated to other funds on the basis of the percentage of full-time, temporary and permanent part-time employees in the fund to total full-time, temporary and permanent part-time employees in the City. A periodic count (every five years) of annual personnel action forms will be undertaken to confirm that the allocation method above is reasonable.

City Solicitor: The City Solicitor's Office provides expert legal advice and advocacy to and on behalf of the City Council, City Manager, Boards and Commissions, Bureaus and all City Departments thereof, relating to their official powers and duties. The School Department has their own legal counsel and the City Solicitor does not provide support or advice to them.

The staffing in the Solicitor's Office consists of the Solicitor, a legal and administrative assistant, one assistant City Solicitor who is responsible for standing in stead of the Solicitor when needed and handling claims and labor issues, one assistant City Solicitor who is responsible for representing the City in Municipal Court, the Municipal Court Judge and the Probate Judge. Salaries and benefits for the Solicitor, legal and administrative assistant and the Assistant City Solicitor who is responsible for claims, labor and the duties of the Solicitor as required (three main employees) will be allocated to other funds. The other personnel costs will not be allocated.

The dues, conferences and training, contract services (legal service), cell phone, mileage and office supplies expenditures relate almost exclusively to the three main employees. Those costs will be allocated to other funds.

The appropriate costs will be allocated in the same manner as the costs in the City Manager Division.

Finance:

Administration and Purchasing: This division provides funds for the operation of the Office of the Director of Finance which is responsible for the overall administration of the Finance Department and provision of support to all other City Departments. Responsibilities include the review and analysis of all Departmental Capital and Operating Budget requests, the preparation of the 5-year Capital Improvement Plan, the Annual Operating Budget, the 3-year Projections, and the 20-year projections; monitoring of expenditures during the course of the year, oversight and/or investment of all City funds, financial reporting for all Departments, financing for all Departments and funds, including debt, and financial direction, advice and support for all departments and funds. The division's time is spent as follows: budget 35%; investment 5%; financial reporting 35%, debt related functions 5%; management of the other finance divisions 10% and other 10%.

Finance Administration and Purchasing (continued)

The following items will be separately allocated:

- Senior Accountant Salary and Benefits 10% to police and fire pensions, trusts and scholarships
- Budget and Finance Analyst Salary and Benefits 5% to Water and WPC for RICWFA requisitions and tracking

80% (budget, reporting and management) of the remaining costs related to Finance Administration except for the Purchasing Agent salary and benefits and legal ads will be allocated to other funds on the basis of their percentage of budget to all budgets. The investment and debt related functions will be allocated on the basis of their share of bank/investment accounts to total bank/investment accounts in a given year. The remaining 10% will not be allocated.

This division is also responsible for city-wide purchasing, advertising and legal purchasing requirements. The Purchasing Agent is also responsible for the timely submission of insurance claims for damages incurred to city property and for the sale of surplus property.

The purchasing agent salary and benefits will be allocated based on the fund's share of purchase orders. Legal advertising related to purchasing will be charged back to the appropriate fund and will not be allocated.

Assessment: The assessor doesn't perform many functions related to other funds except that he does file and defend tax appeals for property owned by the water division. This cost cannot be separately determined; therefore no costs will be allocated to other funds from this division.

Collections: This division collects taxes, license fees, water and sewer charges, fines and most other revenues and receipts of the City. All costs in this division will be allocated to the maritime and parking funds based on the number of payments processed to combined tax, general revenues and tickets payments processed. The City recently engaged the services of a lockbox for water and sewer collections. The Collection office will still be responsible for daily upload of processed utility payments, any utility payments mailed directly to the City and any utility payments received at the counter. The Collection office will track time spent on utilities collection in order to determine a reasonable allocation. The cost of the lockbox services will be split between the water fund and the water pollution control fund.

Accounting: This division is responsible for the timely processing of City vendor and payroll checks; W-2 preparation, all quarterly and annual tax requirements; administration of the deferred compensation and Section 125 Plan programs; and the accounting for of all revenues, expenditures, transfers and journal entries. A small percentage of the Controller and Accounting Supervisor time and benefits (5%) will be specifically allocated to other funds based on the percentage of wires to total wires. All remaining costs in this division will be allocated to other departments on the basis of combined payroll, ACH and vendor checks by fund to total ACH, vendor and payroll checks. This will be counted every five years.

Management Information Systems (MIS): All communication and information systems with the exception of hand held radios and cell phones are the responsibility of this division. The division is also responsible for the maintenance and supplies related to postage systems.

MIS costs need to be evaluated each year in the areas of software maintenance fees, software license fees, and hardware maintenance fees to determine if there are specific items that apply only to one or two functions (ie Tree Inventory Software or Fire Department projector). Those costs should be removed from the bottom line of MIS as well as the lease purchase costs associated with City Hall copiers. MIS capital projects should be included in the cost allocation schedule since these generally deal with all departments and functions. The MIS equipment line will be removed from the bottom line of the bottom line and the costs of equipment will be specifically charged back to the funds.

Newport Public Schools have their own systems, infrastructure, website, phone systems, mail systems and MIS staffing. However, they do use the City's ERP system. Forty-five percent (45%) of the maintenance and hosting costs related to the ERP system should be specifically assigned to the school. Note that the City has contracted support out to the hosting company and it is no longer done by City staff. Therefore MIS personnel costs do not apply to the Schools.

All costs other than those identified above should be allocated on the basis of the percentage of fund budget to total budget. An evaluation was made as to whether the rest of MIS costs could be allocated based on the number of computers to total computers. However, different funds and departments use different servers, software, and infrastructure, some requiring more support than others. Therefore, it was determined to be an unfair method of allocation.

ERP and Payroll Systems, including all ancillary hardware such as specialized printers, should definitely be allocated on the basis of budget since those systems track and report financial and budgetary information.

Public Safety: Police and fire services are provided to all properties in the City except for military properties. State and local governments have no jurisdiction on federal land unless specifically granted. The City does not have jurisdiction over U.S. Navy property.

Police and fire costs will not be allocated to other funds.

- **PWFD 2-10:** Please explain why Newport Water included OPEB contributions in this filing when the no such contributions were allowed in previous dockets (0.00% allocation to Water Fund).
 - a. Please identify the amount of the OPEB contributions contributed by the Water Fund in each of the past three fiscal years?
 - b. Please identify the amount of the OPEB contributions contributed by the Water Fund this year to date??
- **Response:** Contributions to OPEB were not disallowed in previous dockets. There was a 0.00% allocation to the Water Fund because Newport Water specifically did not ask for OPEB Funds. As set forth in my direct testimony in Docket 4025:

"Pursuant to the GASB 43 and 45 on Other Post Employment Benefits (OPEB), the City has established an OPEB Trust and is making an Annual Required Contribution (ARC) as determined by the City's actuaries. The actuarial report includes a schedule that shows the total liability by fund and/or department. Each fund, including the School Department and Library, will be responsible for its share of the ARC. This rate filing does not include a request for the Water Fund's share of the ARC." (See Docket 4025, Direct Testimony of Laura Sitrin, p. 4, II. 5-11)

It is my understanding that Newport did not change the requested allocation of City Services in subsequent dockets. Thus, this 0.00% allocation simply carried over, rather than being disallowed.

The fact that Newport Water did not make contributions to the OPEB Trust does not mean the liability doesn't exist or isn't continuing to accrue. In fact, Newport Water is the only City department that does not make contributions into the OPEB Trust because it was not included in Docket 4025, or subsequent dockets. The total Newport Water liability as of July 1, 2015 (the most recent actuarial valuation) is \$5,152,296.

a. Newport Water did not make any contributions to the OPEB Trust in the past three years as no funds were included in rates to make such payments.

b. Newport Water has not made any contributions to the OPEB Trust in this year to date as no funds were included in rates to make such payments.

Prepared by: Laura Sitrin

PWFD 2-11: Referring to Ms. Sitrin's prefiled testimony (pages 4-5):

a. Please explain why the GASB ruling concerning the Library supports removing the Library budget allocation from the calculation.

b. How many times is the City Library mentioned in City Council minutes?

c. Please update the schedule included in the response to PWFD 1-14 that shows the count of items in minutes for various departments.

d. Please provide a copy of the City Council minutes from 7/10/2013 to 6/25/2014 that are referenced, including any notes, highlights or annotations that were used to determine the 16 times the Water Fund was included.

e. Did anyone in Newport attempt any analysis of the amount of time at City Council meetings that Water Fund items were discussed?

i. If Newport Water performed any such analysis, please provide it.

a. Statement No. 61 of the Governmental Accounting Standards Board **Response:** (GASB) states that "the requirements of this Statement results in financial reporting entity financial statements being more relevant by improving guidance for including, presenting, and disclosing information about component units...ensuring that the financial reporting entity includes only organizations for which the elected officials are financially accountable or are so intertwined with the primary government that they are considered part of the government" The Statement further defines financial accountability as existing if the elected officials appoint a voting majority of the organization's government body and it is able to impose its will on that organization or the organization can impose specific financial benefit or burden. The City auditors contacted the GASB to determine if the Library met the definition of component unit as it had historically been reported that way. The GASB experts determined that there wasn't sufficient connection on any level to include them as a

component unit, and that an annual gift of funding by the City did not constitute any type of control. This ruling supports the position that since the City has no control over the Newport Public Library, nothing should be allocated to the Library.

b. The Newport Public Library (NPL) was mentioned twice in FY2014:

• A citizen questioned a Councilor's membership on the Library Board and the Mayor explained that the Councilor was appointed an "ex officio" member and as such had no official role or responsibilities.

• The second time was to indicate that a water department public hearing would take place at the NPL on May 5th.

The NPL was mentioned 6 times in FY2015

• One person indicated that a copy of the video recording of a Council Meeting was available at the NPL for viewing.

• One mention was a letter of support from the NPL in support of the garden club centennial garden gift to the City.

• One was where the Director addressed the Council about funding included for Library improvements in a facilities bond.

• One was a Council Liaison appointment on a list after the election.

• One announced a public information meeting on Broadway streetscape that would be held at the NPL.

• One was approval of an event license on the consent calendar.

Copies of the mentioned are attached.

c. The minutes have not changed for FY2014 so the numbers in the schedule are accurate and do not require updating.

d. Copies of the minutes can be found on the City's Website - Council Agendas and Minutes.

http://www.cityofnewport.com/services/council-agendas-and-minutes

e. The PUC approved allocation is based on counts so, to my knowledge, no one has attempted an analysis of the amount of time at City Council meetings that Water Fund items were discussed.

Prepared by: Laura Sitrin

CITY OF NEWPORT MINUTES OF THE COUNCIL MEETING HELD JANUARY 8, 2014

(Approved 1/22/2013)

The following items of business, filed with the City Clerk under the Rules of the Council, came before the Council at its regular meeting held on January 8, 2014.

The MAYOR called the meeting to order at 6:30 p.m.

The CITY CLERK called the roll and the following members were present:

MARCO T. CAMACHO	JUSTIN S. MC LAUGHLIN
MICHAEL T. FARLEY	NAOMI NEVILLE
KATHRYN E. LEONARD	HENRY F. WINTHROP

ABSENT: JEANNE-MARIE NAPOLITANO

<u>**CITIZEN'S FORUM:</u>** WANDA JEAN LORD, 21 Burdick Ave., read from her letter to the Council, dated January 8, 2014, that cited Section 2.06.020(F) of the Codified Ordinance, and questioned Councilor McLaughlin's membership on the Board of Trustees of the Newport Public Library. MAYOR WINTHROP responded that Councilor McLaughlin was appointed an "ex office" member of the Board and, as ex officio, he has no official role or responsibilities.</u>

Discussion followed between COUNCILOR FARLEY and UTILITIES DIRETOR JULIA FORGUE, wherein DIRECTOR FORGUE said the Portsmouth Water & Fire District is a participant in the project, which was included as part of a previous rate filing. She also noted that there would be a public hearing on the matter on May 5th at the Newport Public Library.

July 23rd, 2014

RESOLUTIONS

5. COUNCILOR MC LAUGHLIN moved for **RECONSIDERATION** of the <u>resolution</u> requesting a referendum on the November 4, 2014, for proposed Charter Changes. (Considered at the opening of the meeting)

(Before, during, and after votes on the items there was lengthy discussion and comments by members of the Council explaining the reasons for their votes. A copy of the video recording is available at the Newport Public Library for public viewing.)

COMMUNICATIONS AND PETITIONS

- 3. <u>Communication</u> from Newport Garden Club, re: Centennial Reading Garden gift to the City of Newport and the Newport Public Library (Receive)
- Letters of Support:
 - <u>Newport</u> City Tree and Open Space Commission
 - The Edward King House Senior Center
 - <u>Newport</u> Public Library

October 22, 2014

RESOLUTIONS

4. Expressing Support of Question #8 on the local ballot –J. Napolitano, M. Camacho, J. McLaughlin, N. Neville, H. Winthrop

COUNCILOR NAPOLITANO introduced the <u>resolution</u> and moved for its passage. Seconded by COUNCILOR MCLAUGHLIN. COUNCILOR NAPOLITANO commented on the projects that will be completed in various city buildings. COUNCILOR NEVILLE thanked COUNCILOR NAPOLITANO for bringing the resolution forward and further commented that some estimates received are lower and all of the bond money might not need to be used.

Ann Shepard, Director of the Newport Public Library, addressed the Council and stated the improvements proposed for the library would make a big difference as they are serving more people and further she appreciates the support. The motion to approve the resolution was voted UNANIMOUSLY.

December 10, 2014

APPOINTMENTS TO BOARDS AND COMMISSIONS

Council Liaison Appointments:

Brenton Point Commission: Councilor Leonard City Council-School Committee Liaison Committee: Councilors Ceglie, Florez and Neville East Bay Community Action Program: Councilor Camacho Edward King House Senior Center: Mayor Napolitano and Councilor Ceglie Fort Adams Trust: Councilor Leonard Legislative Liaison: Councilors Ceglie and McLaughlin Military Affairs Liaison: Councilors Camacho and McLaughlin Newport County Chamber of Commerce: Councilors Florez and Leonard Newport Partnership for Families: Councilor Florez Newport Public Education Foundation: Councilor Ceglie Newport Public Library: Councilor McLaughlin Newport Substance Abuse Prevention Task Force: Councilor Camacho Washington Square Advisory Commission: Councilor Neville

April 8,2015

8. City Manager Update- Broadway Streetscape Project

CITY MANAGER NICHOLSON addressed the council and gave a brief update of the project and indicated there is a public information meeting scheduled for April 16, 2015 at 9:30 a.m. at the Newport Public Library and also there will be an email notification system for those who wish to register to receive ongoing project updates. COUNCILOR MCLAUGHLIN requested there be an invitation circulated to local businesses.

CITY OF NEWPORT MINUTES OF THE COUNCIL MEETING MAY 13, 2015 (Approved 6/10/2015)

The following items of business, filed with the City Clerk under the Rules of the Council, came before the Council at its regular meeting held on May 13, 2015 at 6:30 p.m. at the Pell School, 35 Dexter St.

The Mayor called the meeting to order at 6:30 p.m. The CITY CLERK called the roll and the following members were present: JEANNE MARIE NAPOLITANO JOHN F. FLOREZ JUSTIN S. MCLAUGHLIN MARCO T. CAMACHO

<u>ABSENT:</u> KATHYN E. LEONARD NAOMI NEVILLE LYNN UNDERWOOD CEGLIE

1. <u>PUBLIC HEARING</u>: <u>Draft</u> Environmental Assessment Review (System Master Plan SMP)-Wellington Combined Sewer Overflow (CSO) Facility Improvements

MAYOR NAPOLITANO opened the public hearing. Hearing no comments from the public, COUNCILOR CAMACHO made a motion to close the hearing. Seconded by COUNCILOR MCLAUGHLIN and VOTED UNANIMOUSLY.

2. <u>PUBLIC HEARING</u>: Recommended 2016-2017 Operating Budget

MAYOR NAPOLITANO opened the public hearing. CITY MANAGER JOSEPH NICHOLSON addressed the council to indicate there will be a \$300,000 reduction in the Department of Public Services budget for structural repairs to the Easton's Beach Rotunda. He indicated there will need to be an updated structural assessment and envelope study as the current assessment is outdated, as it was performed in September 2010.

COUNCILOR CAMACHO made a motion to close the public hearing. Seconded by COUNCILOR FLOREZ and VOTED UNANIMOUSLY.

3. CONSENT CALENDAR.

(THE CONSENT CALENDAR IS APPROVED IN ITS ENTIRETY UNLESS THE COUNCIL REMOVES AN ITEM FOR DISCUSSION. ALL LICENSES ARE GRANTED SUBJECT TO COMPLIANCE WITH ORDINANCES #31-80 AND #98-40.)

- a. <u>Minutes</u> of the Meetings held March 25, 2015 and April 8, 2015 (Approve)
- b. Special Event Licenses:
 - <u>Elmwal</u> Associates, LLC, d/b/a Free Summer Concert Series, Shops at Long Wharf; May 16, 23, 30, June 6, 13, 20, 27, July 4, 5, 11, 18, 25, August 1, 8, 15, 18, 25, September 5, 12, 19, 29 and October 3, 10 & 11, 2015 from 1:00 p.m. to 5:00 p.m.

 \sim <u>Request</u> to waive Section 5.70.040 of the codified ordinances, entitled "License Application Fee"- which states a special event license can be granted for not more than (14) fourteen days. Applicant is requesting 24 days total.

- 2. <u>Bike</u> Newport, d/b/a Bike to Work Day 2015, Streets of Newport; May 15, 2015 from 7:00 a.m. to 9:30 a.m. and 3:30 p.m. to 5:00 p.m.
- 3. <u>Iglesia</u> Cristiana Peniel, d/b/a Musical Concert, Newport Marriott Hotel; America's Cup Ave., May 30, 2015 from 6:30 p.m. to 10:00 p.m.
- 4. <u>Child</u> and Family Services of Newport County, d/b/a Au Courant-Fundraising Event; Ochre Court, 100 Ochre Point Ave., June 26, 2015 from 6:30 p.m. to 11:00 p.m.
- 5. <u>Festival</u> Fete, d/b/a Newport Art Festival, 33 Bowens Wharf (The Landing parking lot); June 27 & 28, 2015 from 10:00 a.m. to 6:00 p.m.
- Michael Russo, d/b/a Think Pink! Chase Away Breast Cancer, beginning at the Elks Lodge, 141 Pelham St., June 27, 2015 from 8:00 a.m. to 5:30 p.m. (Race between 10:00 a.m. to 12:00 p.m.) Two proposed routes attached (Approve subject to details being worked out with city administration)
- 7. The <u>Confetti</u> Foundation, d/b/a Boats & Bowties, Newport Yachting Center, August 4, 2015 from 7:00 p.m. to 9:00 p.m.
- 8. <u>Newport</u> Public Library, d/b/a Literacy Blooms at A Novel Evening; Newport Public Library, 300 Spring St., August 16, 2015 from 6:00 p.m. to 8:30 p.m.
- 9. <u>Festival</u> Fete, d/b/a Newport Art Festival, 33 Bowen's Wharf (The Landing parking lot); August 29 & 30, 2015 from 10:00 a.m. to 6:00 p.m.
- c. Holiday Selling Licenses, New:
 - 1. Sukhy's Threading #5, LLC, d/b/a Sukhy's Threading, 213 Goddard Row
 - 2. <u>SSND</u> Inc., d/b/a Ships Store and Rigging, Bowens Wharf, 1a Bowen's Landing
 - 3. Wicker Designs LTD, d/b/a Hey Sailor, 129 Swinburne Row
 - 4. <u>L'Occitane</u> Inc., d/b/a L'Occitane en Provence, 21 Long Wharf Mall
 - 5. <u>Spice of Life Management LLC, d/b/a The Spice & Tea Exchange of Newport, 192-B Thames St.</u> (new owner)
- d. Holiday Selling License, New Location, Wild Orchid LLC, d/b/a Wild Orchid, 492 Thames St. Unit 1
- e. Second-hand License, New, Newport Style Inc., d/b/a Newport Style, 59 Bellevue Ave.
- f. Second-hand License, Renewal, Stella Martin, d/b/a Design Newport, 121 Bellevue Ave.
- g. Holiday Selling License Renewals:
 - 1. Bailey T's Resortwear, LLC, d/b/a Bailey T's Resortwear, 12 Long Wharf Mall
 - 2. <u>Stella Martin</u>, d/b/a Design Newport, 121 Bellevue Ave.
 - 3. <u>NEHC</u>, LLC, d/b/a New England Harbour Club, 65 Long Wharf

- 4. Wagon Wheel Corporation, d/b/a Newport Best Sportswear, 246 Thames St.
- 5. Wicker Designs LTD, d/b/a P.S. Gear 2, 359 Thames St.
- 6. Wicker Designs LTD, d/b/a P.S. Gear Division, 113 Swinburne Row
- 7. Wicker Designs LTD, d/b/a Pleasant Surprise, 121 Swinburne Row
- 8. Zara Trading Inc., d/b/a Rib & Rhein, 86 William St.
- h. <u>Communication</u> from Dave McLaughlin, Clean Ocean Access, re: Quarterly Report on Adopted CRMC Public rights-of-way (2015/Q1) (Receive)
- <u>Communication</u> from John A. Murphy, Esq., Morneau & Murphy, Attorneys at Law, requesting on behalf of Conanicut Marine Services, Inc., permission for the ferries, <u>The Jamestown</u> and the <u>MV</u> <u>Katherine</u>, to sell alcoholic beverages dockside in conjunction with their State Class G Marine Vessel Beverage Licenses (Approve)

COUNCILOR CAMACHO made a motion to approve the consent calendar in its entirety. Seconded by COUNCILOR MCLAUGHLIN and VOTED UNANIMOUSLY.

- **PWFD 2-12:** Referring to Exhibit 1 to Ms. Sitrin's pre-filed testimony, Newport Water has added a new item Accounting Wires:
 - a. Please explain what this item is.

b. Please explain whether the costs for this item include costs for wires for payroll, health insurance, and dental insurance.

- i. If this item includes the costs for wires for payroll, health insurance, and dental insurance, please explain why these amounts are not allocated based on the percentage of total city employees that are part of the Water Fund.
- If this item does not include the costs for payroll, health insurance, and dental insurance, please identify where the costs associated with those items are allocated in Newport Water's filing.

c. Please explain the reason that Newport Water allocated these expenses based on the count of transfers instead of the percentage of city employees that are part of the Water Fund, including in your answer:

- i. Whether 70% of City employees are part of the Water Fund; and
- If 70% of City employees are not a part of the Water Fund, an allocation of the Accounting Wires expense based on the percentage of city employees that are a part of the Water Fund.

d. Has Newport Water reduced the other Finance Administration items as a result of this new Accounting Wires item?

e. Please provide a breakdown of the total Finance Administration budget broken down to the 50% Administration, 5% RICWFA, and 10% Inv/Debt for FY 2014 and FY 2015.

Response: a. This is not a new item. In past Dockets, this Allocation was labeled "Accounting 5%" and did not have the word "Wires" in the title, but this is the same allocation as in previous Dockets.

b. This item does not include wires for payroll, health insurance or dental insurance. Those items are excluded from any counts related to allocation since they apply equally to all funds, and there is no cost differential between funds.

c. See above.

d. No. See above

e. Please see the schedules attached to the response to PWFD 1-14 for FY2014, and the schedule attached to PWFD 2-7 for FY2015.

PWFD 2-13: Regarding MIS services, please:

a. Explain why Newport Water did not provide a breakdown of the MIS services between "Communications" and "Other" as it has in prior dockets, as these categories have been allocated differently, and

b. Provide a breakdown of the MIS Budget that shows Communications Items and all "Other" items.

Response: a. While MIS was broken down between "Communications" and "Other" in Docket 4025, these categories were combined in a single "Data Processing" line item in the Docket 4355 Settlement Agreement (See Docket 4355 Joint Settlement Schedule A-1).

b. The line item for Communications in the FY2015 Budget is \$338,841.

PWFD 2-14: Referring to the attachment detailing MIS in response to Data Request Comm. 1-17:

a. Why is \$385,950 of capital included (see PWFD 1-14(d))?

b. Explain why Newport Water included anything more than the \$1,382,050 of operating costs?

Response: a. Information technology includes major equipment, infrastructure and communications lines that meet the definition of capital expenditures or improvements. The capital improvements apply to all departments and functions in the City. The total capital of \$385,950 was reduced to \$130,000 for purposes of allocation. This includes \$130,000 to upgrade fiber optic lines to 10GB for all departments and include additional switching and wiring needed for the new phone and communications systems.

b. See answer to a.

PWFD 2-15: Please explain in detail why Newport Water has proposed to change the allocation of the City Solicitor's office from 50% to 100%, contrary to the determination in previous dockets that only 50% of such costs should be included in Newport Water's rates.

If Newport Water is relying on the portions of Ms. Sitrin's prefiled testimony indicating that some costs were moved from Human Resources to City Solicitor, please explain and provide any analysis that supports departing from the previously agreed-to allocation.

The total FY2015 budget for the Solicitor's office is \$511,050. We **Response:** removed costs related to municipal court and probate leaving costs to allocate of \$391,847. Thus, 100% of the City Solicitor's costs are not allocated. The remaining costs are primarily related to certain personnel in that office, all of whom spend a majority of their time on labor issues and City Council docket items/issues. Labor issues apply to all departments with the exception of Water Pollution Control which has no unionized employees. Water Department employees make up close to 50% of all employees in the AFSCME bargaining unit. Similarly, legal issues that arise from City Council docket items or Council policy questions could apply to any topic or department. In fact, while we can't quantify it, much time was spent by the Solicitor, Manager and Council on drinking water compliance issues, the consent decree and major improvements and costs of over \$85 million in the water department. These costs should be applied in the same manner as that of the City Council and City Manager.

> Budgeted labor costs of \$50,000 were moved from the human resources budget to the City Solicitor's budget since that office negotiates all labor contracts, handles most labor grievances and authorizes expenditure of that money.

- PWFD 2-16: Please explain why Newport Water did not use the actual FY 2015 operating expenses of \$8,734,259 set forth in HJS Schedule A-1A instead of the budgeted FY 2015 operating expenses of \$10,843,753 reflected on Exhibit 2 to Ms. Sitrin's pre-filed testimony to determine allocations to the Water Fund.
- Response: Actual FY2015 operating expenses were not available on November 4, 2014 when the counts and allocations were done. Please see responses to PWFD 2-7 and 2-8. Additionally, the Cost Allocation Manual calls for percentage of budget, not actuals.
- Prepared by: Laura Sitrin

PWFD 2-17: Referring to Ms. Sitrin's prefiled testimony regarding the reduction in allocations because of the use of a lockbox and the assertion that such lockbox fees were split between the Water department and WPC:

Is the \$344,654 of Collections costs just for lockbox services?

Where is this expense identified in the budget document referenced in the response to Data Request PWFD 1-14?

Response: The \$344,654 is the total Collections Division budget. The lockbox services fee of \$50,000 is being paid directly by the Water and Water Pollution Control funds. It is being subtracted from the allocation to those two funds since it is presumed that lockbox has replaced some of the services previously provided by Collections. The \$344,654 can be found on page 65 of the FY2015 Budget.

PWFD 2-18: Regarding the Consultant Fees in Administration:

- a. Please explain what is included in the \$40,000 for "Other Committed in 2015" and provide the detail of what will be spent in the rate year?
- b. Why aren't "bond advisor" costs included in the proceeds of bond issue?
 - i. Does Newport Water anticipate any new bonds through the rate year?
 - ii. Why should this cost be included as an ongoing expense?
- **Response:** a. The amounts shown in "other Committed in 2015" represents the balance of Purchase Orders for Keough + Sweeney and Raftelis which were budgeted at the beginning of fiscal year 2015, but were not subsequently paid.

b. Generally "bond advisor" costs are deducted from bond proceeds. The caption was mislabeled and should be bond bank trustee fees.

i. Newport Water does not expect any new bonds through the rate year.

ii. If there were bond advisor fees they would not be included as an ongoing expense. However, bond trustee fees are an ongoing expense.

Prepared by: William Yost

- **PWFD 2-19:** Regarding HJS Schedule A-1A (revenue requirements), please provide the basis for each of the Revenue Offsets or Miscellaneous revenue items.
- **Response:** The Revenue Offsets or Miscellaneous revenue items used in this Docket are the same as those established in Docket 4243.

Prepared by: William Yost

CERTIFICATION

I hereby certify that on March 17, 2016, I sent a copy of the within to all parties set forth on the attached Service List by electronic mail and copies to Luly Massaro, Commission Clerk, by electronic mail and regular mail.

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