

File No. 100341

Committee Item No. 6

Board Item No. _____

COMMITTEE/BOARD OF SUPERVISORS

AGENDA PACKET CONTENTS LIST

Subcommittee BUDGET AND FINANCE

Date 4/7/10

Board of Supervisors Meeting

Date _____

Cmte Board

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Completed by: Gail Johnson

Date 4/2/10

Completed by: _____

Date _____

An asterisked item represents the cover sheet to a document that exceeds 25 pages. The complete document is in the file.

1 [Water Revenue Bond Issuance – Not to Exceed \$1,737,724,022]

2
3 **Ordinance approving the issuance and sale of water revenue bonds by the San**
4 **Francisco Public Utilities Commission to finance various projects under the Water**
5 **System Improvement Program and the Capital Improvement Program, including but not**
6 **limited to the Commission's Advance Meter Infrastructure System, pursuant to**
7 **amendments to the Charter of the City and County of San Francisco enacted by the**
8 **voters on November 5, 2002, as Proposition E; and ratifying previous actions taken in**
9 **connection therewith.**

10
11 Be it ordained by the People of the City and County of San Francisco:

12 Section 1. Findings. The Board of Supervisors (the "Board") of the City hereby finds
13 and declares as follows:

14 A. On November 5, 2002, the voters of the City and County of San Francisco (the
15 "City") approved Proposition E, which among other things, authorized the Commission to
16 issue revenue bonds, including notes, commercial paper or other forms of indebtedness,
17 when authorized by ordinance approved by a two-thirds vote of the Board of Supervisors, for
18 the purpose of reconstructing, replacing, expanding, repairing or improving water facilities or
19 clean water facilities or combinations of water and clean water facilities under the jurisdiction
20 of the Commission; and,

21 B. On October 30, 2008 the Commission reviewed and considered the Final
22 Program Environmental Impact Report (PEIR) prepared for the Commission's Water System
23 Improvement Program (the "WSIP"), and certified by the Planning Commission in Planning
24 Commission Motion No. 17734, and adopted the findings required by the California
25

1 Environmental Quality Act (CEQA) including a statement of overriding considerations and
2 monitoring and reporting program in its Resolution No. 08-0200; and

3 C. By Resolution 09-0102 adopted on June 23, 2009 (the "Commission
4 Resolution") the Commission has determined to issue water revenue bonds to finance a
5 portion of certain capital projects relating to the WSIP and, pursuant to Section 8B.124 of the
6 Charter, has formally requested this Board of Supervisors to authorize the issuance and sale
7 of water revenue bonds for such purposes; and,

8 D. In order to finance the costs of the WSIP, and other Capital Improvement
9 Projects, including but not limited to the Commission's Advanced Meter Infrastructure System
10 (the other Capital Improvement Projects and the Advanced Meter Infrastructure System are
11 referred to as the "Non WSIP Projects"), the Board now desires to authorize the issuance and
12 sale of water revenue bonds for such purposes; and,

13 E. On August 4, 2009, this Board passed its Ordinance No. 189-09 approving the
14 issuance and sale of water revenue bonds (the "Water Revenue Bonds") from time to time by
15 the Commission pursuant to Proposition E of 2002 and in accordance with the Commission
16 Resolution, in a principal amount not to exceed \$1,310,307,119, representing the difference
17 between \$2,949,924,182 previously approved total appropriations and \$1,628,000,000 under
18 Proposition A, to finance and refinance Projects that are within the Commission's Water
19 System Improvement Program ("WSIP Projects"), which ordinance became effective on
20 September 12, 2009; and

21 F. In order to finance the Non-WSIP Projects, the Board is concurrently considering
22 with this ordinance, supplemental WSIP related appropriations totaling \$1,448,149,320, other
23 Capital Improvement Program related appropriations totaling \$24,203,614 and financing costs
24 totaling \$203,371,088, desires to additionally authorize the use of proceeds of any Water
25

1 Revenue Bonds previously authorized pursuant to Ordinance No. 189-09 to finance and
2 refinance Non-WSIP Projects; and

3 G. On July 27, 2009, City Planning Department issued a final Certificate of
4 Determination/Exemption from Environmental Review for the AMI Project. The City Planning
5 Department found that the project is exempt from environmental review under the California
6 Environmental Quality Act. A copy of the Certificate of Determination is on file with the Clerk
7 of the Board of Supervisors in File No. 091094.

8 Section 2. Approval of the Water Revenue Bonds. The Board hereby approves the
9 issuance and sale of the Water Revenue Bonds from time to time by the Commission
10 pursuant to Proposition E and in accordance with the Commission Resolution in an aggregate
11 principal amount not to exceed \$1,737,724,022, representing \$1,647,249,182 in supplemental
12 WSIP related appropriations and financing costs, \$28,474,840 in other Capital Improvement
13 Program related appropriations and financing costs, and \$62,000,000 for the AMI Project
14 including financing costs, at a maximum rate or rates of interest of not to exceed twelve
15 percent (12%) per annum to finance a portion of the design, acquisition and construction of
16 various capital projects in furtherance of the WSIP and the Non-WSIP projects. The
17 Commission is hereby authorized to determine the timing, amount and manner of sale of each
18 series of Water Revenue Bonds issued pursuant to this authorization; provided however, the
19 Commission shall return to the Board prior to the issuance of any such Bonds to obtain
20 approval by ordinance or resolution of the Board of any related financing or disclosure
21 documents prepared in connection with the issuance of such obligations.

22 Section 3. General Authority. The Controller, Treasurer, the City Attorney and other
23 officers of the City and their duly authorized deputies and agents are hereby authorized and
24 directed, jointly and severally, to take such actions and to execute and deliver such
25 certificates, agreements, requests or other documents, as they may deem necessary or

1 desirable to facilitate the issuance, sale and delivery of the Water Revenue Bonds, to obtain
2 bond insurance or other credit enhancements with respect to the Water Revenue Bonds, to
3 obtain surety, to obtain title and other insurance with respect to the facilities to be financed,
4 and otherwise to carry out the provisions of this Ordinance.

5 Section 4. Ratification of Prior Actions. All actions authorized and directed by this
6 Ordinance and heretofore taken are hereby ratified, approved and confirmed by this Board.

7 Section 5. File Documents. All documents referred to as on file with the Clerk of the
8 Board are in File Nos. 100341.

9 Section 6. Effective Date. Pursuant to Section 14.102 of the Charter, this Ordinance
10 shall take effect thirty (30) days after its adoption.

11
12 APPROVED AS TO FORM:
13 DENNIS J. HERRERA, City Attorney

14
15 By: _____
16 Mark D. Blake
17 Deputy City Attorney

Items 6, 7, and 8
Files 10-0341, 10-0337, 10-0338

Department:
Public Utilities Commission

EXECUTIVE SUMMARY

Legislative Objectives

- File 10-0341:¹ Ordinance authorizing the Public Utilities Commission (PUC) to issue up to \$1,737,724,038 in Water Revenue Bonds to fund (a) \$1,647,249,198¹ in Water System Improvement Program (WSIP) costs through the completion of WSIP in December of 2015, (b) \$28,474,840 in Replacement and Retrofit (RnR) Project costs in FY 2010-2011 and FY 2011-2012, and (c) \$62,000,000 for the PUC's Advanced Metering Infrastructure (AMI) Project.
- File 10-0337:¹ Ordinance appropriating \$1,647,249,198 from the proceeds of Water Revenue Bonds to fund WSIP project costs through the completion of WSIP in December of 2015. The ordinance would also (a) place on Budget and Finance Committee reserve all construction funds for WSIP projects with a total appropriation of over \$100,000,000, and (b) place on Controller's reserve all project funds for those projects which require future Board of Supervisors approval for Environmental Impact Reports (EIRs) prepared pursuant to the California Environmental Quality Act.
- File 10-0338:¹ Ordinance appropriating \$30,483,021, including (a) \$28,474,840 from the proceeds of Water Revenue Bonds, and (b) \$2,008,181 in Water Capacity Fees (see Footnote 2 below), to fund the PUC's \$30,483,021 Replacement and Retrofit (RnR) Project.

Fiscal Impact

- The debt service on the proposed \$1,737,724,038 Water Revenue Bond issuance, totaling \$3,565,823,979 over 35 years, would be paid from PUC water revenues paid by water customers.

Key Points

- The Board of Supervisors previously appropriated a total of \$2,938,307,063 to fund the PUC's overall \$4,585,556,261 Water System Improvement Program (WSIP). The PUC is now requesting a final appropriation of \$1,647,249,198 to fund the remaining WSIP costs for the 66-month period from July 1, 2010 through December 31, 2015. The requested \$1,647,249,198 appropriation for 66 months includes (a) project expenditures for FY 2010-2011 and FY 2011-2012 as required by Proposition A, approved by San Francisco voters in November of 2009, and (b) project expenditures for projects which would award a construction contract prior to June 30, 2012. However, \$116,863,924 of the requested appropriation is for projects that would not begin construction until after June 30, 2012, such that the Budget and Legislative Analyst recommends placing \$116,863,924 on Budget and Finance Committee reserve pending submission of an updated WSIP expenditure plan subsequent to January 1, 2012 but prior to June 30, 2012.
- The PUC is also requesting an appropriation of \$30,483,021 in Water Revenue Bond proceeds

¹ As shown in Table 10 in the Recommendations Section of this report, the three proposed ordinances include minor typographical errors regarding appropriation amounts and dates of expenditures. This report refers to the corrected amounts and dates.

(\$28,474,840) and Water Capacity Fees (\$2,008,181) to fund a portion of the FY 2010-2011 and FY 2011-2012 costs of the PUC's Replacement and Retrofit (RnR) Project, an ongoing project to replace the PUC's aging water distribution main pipelines throughout the City. This Project has been historically funded through annual appropriations of water revenues in the PUC's budget. However, the PUC now intends to finance a portion of the RnR Project through bond fund monies in order to balance the benefits of (a) cash financing capital projects which results in the lowest overall cost to the rate payers, and (b) spreading the cost of the RnR program over the life of the capital assets using debt financing.

- The proposed \$1,737,724,038 Water Revenue Bonds issuance also includes \$62,000,000 for the PUC's Advanced Metering Infrastructure (AMI) Project, a project to replace 180,000 conventional water meters throughout the City with advanced digital water meters capable of transmitting consumption data to the PUC wirelessly. The PUC previously intended to finance the AMI Project through lease financing, but, in order to reduce financing costs, the PUC is now requesting to finance the AMI Project through the proposed Water Revenue Bonds. The Board of Supervisors previously appropriated \$58,747,000 to the AMI Project (File 09-0548). However that appropriation did not include the needed \$3,252,400 in financing costs for the AMI Project. Therefore, because the PUC inadvertently did not include the needed \$3,252,400 in AMI Project financing costs in the requested appropriation, the Budget and Legislative Analyst recommends increasing the proposed appropriation ordinance (File 10-1038), by \$3,252,400, from \$30,483,021 to \$33,735,421, in order to include such financing costs for the AMI Project.

Recommendations

- Amend the proposed ordinances to correct typographical errors, as shown in Table 11 of the Recommendations Section of this report.
- Amend the proposed ordinance (File 10-0337) to place \$116,863,924 which would be expended after June 30, 2012 on Budget and Finance Committee reserve pending submission of an updated expenditure plan subsequent to January 1, 2012 but prior to June 30, 2012.
- Amend the proposed ordinance (File 10-0338) to increase the appropriation by \$3,252,400 in Water Revenue Bond proceeds in order to fund the needed financing costs for the AMI Project, increasing the total appropriation amount from \$30,483,021 to \$33,735,421.
- Approved the proposed ordinances, as amended.

MANDATE STATEMENT / BACKGROUND**Mandate Statement**

On November 4, 2002, the voters of San Francisco approved Proposition A, which authorized the issuance of \$1,628,000,000 in Water Revenue Bonds to finance the local portion of the PUC's Water System Improvement Program (WSIP). The Board of Supervisors, through various ordinances, has previously authorized the issuance of the maximum amount authorized under Proposition A, or \$1,628,000,000 in Water Revenue Bonds.

In addition to the \$1,628,000,000 in Water Revenue Bonds authorized under Proposition A, on November 4, 2002, San Francisco voters also approved Proposition E, which authorized the PUC to issue an unlimited amount of either Wastewater or Water Revenue Bonds, without subsequent voter approval, subject to a two-thirds approval by the Board of Supervisors, for capital improvements to PUC water, wastewater, and power facilities.

Background

In combination, the three proposed ordinances would combine (a) the proceeds of the proposed issuance of up to \$1,737,724,038 in Water Revenue Bonds, with (b) \$2,008,181 in Water Capacity Fees² for a total of \$1,739,732,219, in order to fund (a) \$1,647,249,198 for WSIP project costs through the completion of WSIP projects in December of 2015, (b) \$30,483,021 for the PUC's Replacement and Retrofit (RnR) Project in FY 2010-2011 and FY 2011-2012, and (c) \$62,000,000 for the PUC's Advanced Metering Infrastructure (AMI) Project.

Water System Improvement Program (WSIP) Projects File 10-0337)

The PUC's WSIP is a series of 86 separate capital improvement projects designed to provide increased water delivery capacity and seismic reliability throughout the Hetch Hetchy water system. The 86 individual projects are categorized into five geographic regions and standalone projects, and have a current total estimated cost of \$4,585,556,261, including financing costs.

As noted above, the Board of Supervisors, through various ordinances, has previously authorized the issuance of the maximum amount authorized under Proposition A, or \$1,628,000,000 in Water Revenue Bonds. In addition, the Board of Supervisors, through approval of File 09-0886 on August 4, 2009, previously authorized the issuance of \$1,321,924,182 in Water Revenue Bonds to fund WSIP projects, under the authority provided by Proposition E, which as noted above, provides the PUC with unlimited bond issuance authority, without subsequent voter approval, subject to the approval of two-thirds of the Board of Supervisors.

Replacement and Retrofit (RnR) Projects (File 10-0338)

Separate from the WSIP, the PUC's Replacement and Retrofit (RnR) Project is an ongoing project to either replace or retrofit all existing water distribution main pipelines in the City.

² According to Mr. Jacobo, Water Capacity Fees are paid by property owners to the PUC when new construction requires the PUC to have to expand water delivery capacity.

According to Mr. Carlos Jacobo, PUC Budget Director, many of the PUC's existing underground³ water distribution main pipelines are over 100 years old and in need of replacement. The PUC has historically funded the RnR Project through operating funds appropriated in the PUC's annual budget. Under File 10-0338, \$28,747,840 in Water Revenue Bond proceeds would be utilized instead of operating funds.

Advanced Meter Infrastructure (AMI) Project (File 10-0341)

The PUC's Advanced Meter Infrastructure (AMI) Project is a \$67,755,135 project to (a) retrofit or replace all 180,000 existing visual-read conventional water meters with advanced digital water meters and (b) create an associated network of transmitters to provide for the wireless transmission of water consumption data from the advanced digital water meters to the PUC's Customer Service Department and related organizations. The PUC previously intended to finance the AMI Project through a ten-year lease financing agreement with a private lender through the State of California's GSmart lease financing program, and previously, on June 16, 2009, the Board of Supervisors approved an appropriation of \$58,747,600 in lease financing proceeds to fund the AMI Project (File 09-0548). That appropriation did not include financing costs because, according to Mr. Jacobo, at the time of the appropriation, it was not the City's practice to appropriate financing costs.

According to Mr. Jacobo, the PUC now instead intends to finance the AMI Project through an appropriation of Water Revenue Bond proceeds in an amount of \$62,000,000 in order to (a) reduce overall financing costs, and (b) extend the financing period to the life of the advanced meters. The PUC inadvertently did not include the needed \$3,252,400 in AMI Project financing costs in the requested appropriation.

The Board of Supervisors also previously approved the execution of four separate professional service agreements necessary for the implementation of the AMI Project (File 09-1094).

DETAILS OF PROPOSED LEGISLATION

The three proposed ordinances would combine (a) the proceeds of the proposed issuance of up to \$1,737,724,038 in Water Revenue Bonds, with (b) \$2,008,181 in Water Capacity Fees⁴ for a total of \$1,739,732,219, in order to fund (a) \$1,647,249,198 for WSIP project costs through the completion of WSIP projects in December of 2015, (b) \$30,483,021 for the PUC's Replacement and Retrofit (RnR) Project related to the City's water distribution mains in FY 2010-2011 and FY 2011-2012, and (c) \$62,000,000 for the PUC's Advanced Metering Infrastructure (AMI) Project. An overview of the sources and uses of funds is shown in Table 1 below.

³ According to Mr. Jacobo, most of these pipelines run underneath City streets, such that the PUC's RnR Project budget includes funding for excavating City streets, pipe repair and/or replacement as well as the subsequent repaving of City streets.

⁴ According to Mr. Jacobo, Water Capacity Fees are paid by property owners to the PUC when new construction requires the PUC to have to expand water delivery capacity.

Table 1: Sources and Uses of Funds

| Source of Funds | Use of Funds | | | Total |
|---|--|--|---|------------------------|
| | WSIP Projects (Appropriated in File 10-0337) | Replacement and Retrofit (RnR) Projects (Appropriated in File 10- 0338) | Advanced Meter Infrastructure (AMI) Project (Previously Partially Appropriated in File 09-0548 ⁵) | |
| Water Revenue Bond Proceeds (Issuance Approved in File 10- 0341) | \$1,647,249,198 | \$28,474,840 | \$62,000,000 | \$1,737,724,038 |
| Water Capacity Fees (Appropriated in File 10-0338) | 0 | 2,008,181 | 0 | 2,008,181 |
| Total | \$1,647,249,198⁶ | \$30,483,021 | \$62,000,000 | \$1,739,732,219 |

Details regarding the three projects shown in Table 1 are provided below.

Water System Improvement Program (WSIP) Projects

As shown in Table 2 below, the proposed ordinance (File 10-0337) would appropriate a total of \$1,647,249,198 to fund the completion of the PUC's WSIP projects through December of 2015.

⁵ As discussed below in the AMI Project portion of this Section of the report, the \$62,000,000 for AMI Project costs to be funded by Water Revenue Bonds, as shown in Table 1 above, includes (a) \$58,747,600 that was previously appropriated to the AMI Project in File 09-0548, and (b) \$3,252,400 which the Budget and Legislative Analyst recommends be added to the appropriation under File 10-0338 (see Recommendations Section).

⁶ The total WSIP project cost of \$1,647,249,198 represents the net additional project costs, and is adjusted for the deappropriation of \$41,149,716 from specific local projects within WSIP.

Table 2: WSIP Expenditure Plan by WSIP Region

| | Proposed Appropriation (De-appropriation⁷) |
|---------------------------------------|--|
| Regional Projects | |
| San Joaquin Region | \$222,715,803 |
| Sunol Valley Region | 247,478,748 |
| Bay Division Region | 126,305,586 |
| Peninsula Region | 557,562,377 |
| San Francisco Region | 16,250,288 |
| System Wide | 110,444,314 |
| Subtotal | \$1,280,757,116 |
| Local Projects | |
| Reservoirs | \$26,572,340 |
| Pump Stations and Tanks | (29,408,888) |
| Pipelines and Valves | (10,831,228) |
| Miscellaneous Projects | (909,600) |
| Subtotal | (\$14,577,376) |
| Standalone Projects | |
| Lake Merced Water Level Restoration | \$22,407,134 |
| San Francisco Groundwater Supply | 31,126,553 |
| Recycled Water San Francisco | 110,146,222 |
| San Francisco Eastside Recycled Water | 18,289,688 |
| Subtotal | \$181,969,597 |
| Financing Costs | 199,099,861 |
| Total (see Table 1 above) | \$1,647,249,198 |

Attachment I, provided by the PUC, detailing the funds available for each project within WSIP, shows that the PUC currently has \$1,619,566,271 in unexpended and unencumbered prior WSIP appropriations. As shown in Attachment I, the PUC intends to combine the \$1,619,566,271 of available funds with the requested appropriation of \$1,647,249,198 for a total of \$3,266,815,469 of funding for WSIP projects, including (a) \$2,804,679,629 in project costs and (b) \$462,135,840 in financing costs.

Attachment II, also provided by the PUC, shows the expenditure plan for the \$2,804,679,629 in project costs for the completion of the WSIP projects, which is currently anticipated to occur by December of 2015. As shown in Attachment II, the expenditure plan for the \$2,804,679,629 in project costs includes (a) \$2,265,973,067 in construction costs, (b) \$288,686,502 in consultant costs, and (c) \$250,020,060 in City labor costs. As discussed above, the PUC intends to fund the (a) \$2,804,679,629 in project costs shown in Attachment II, and (b) \$462,135,840 in financing costs, by combining \$1,619,566,271 of previously appropriated unexpended and unencumbered funds with the requested appropriation of \$1,647,249,198 (File 10-0337).

⁷ The proposed appropriation ordinance (File 10-0337) includes the de-appropriation of \$41,149,716 of funds from WSIP projects which, according to Mr. Jacobo, (a) are either completed or are near complete, or (b) the PUC is confident that the cost of such projects has decreased. As shown in Table 2 above, the de-appropriation of \$41,149,716 includes (a) \$29,408,888 from Local Pumps Stations and Tanks, (b) \$10,831,228 from Local Pipelines and Valves, and (c) \$909,600 from Local Miscellaneous Projects.

The proposed ordinance (File 10-0337) would also (a) place on Budget and Finance Committee reserve all construction funds for WSIP projects with a total appropriation of over \$100,000,000, and (b) place on Controller's reserve all project funds for those projects which require future Board of Supervisors approval for Environmental Impact Reports (EIRs) prepared pursuant to the California Environmental Quality Act. In the previous appropriation to fund WSIP projects (File 08-1453), the Board of Supervisors placed similar reserves on projects over \$100,000,000 and those requiring future EIR approval.

Replacement and Retrofit (RnR) Projects

The proposed Water Revenue Bond issuance would fund \$30,384,021 (File 10-0338) for the PUC's ongoing Replacement and Retrofit (RnR) Project, to replace existing aged water distribution mains. As discussed above, the PUC historically funds the RnR Project through water revenues annually appropriated by the Board of Supervisors in the PUC's budget. According to Mr. Jacobo, the PUC now intends to finance a portion of the RnR Project through bond fund monies in order to balance the benefits of (a) cash financing capital projects which results in the lowest overall cost to the rate payers, and (b) spreading the cost of the RnR program over the life of the capital assets using debt financing.

The proposed ordinance (File 10-0338) would appropriate a total of \$30,483,021, including (a) 28,474,840 in bond proceeds from the proposed issuance of Water Revenue Bonds, and (b) \$2,008,181 in Water Capacity Fees⁸, to fund a portion of the PUC's RnR budget for FY 2010-2011 and FY 2011-2012, as shown in Table 3 below.

Table 3: Sources and Uses of Funds for the Replacement and Retrofit Project in FY 2010-2011 and FY 2011-2012

| | FY 2010-2011 | FY 2011-2012 | Total |
|---|---------------------|---------------------|---------------------|
| Sources | | | |
| Water Capacity Fees | \$840,883 | \$1,167,298 | \$2,008,181 |
| Proceeds from Proposed Bond Issuance | 11,294,412 | 17,180,428 | 28,474,840 |
| Subtotal Appropriated by File 10-0338 (see Table 1 above) | \$12,135,295 | \$18,347,726 | \$30,483,021 |
| To Be Requested In PUC's Budget for FY 2010-2011 and FY 2011-2012 | \$12,800,865 | \$8,401,307 | \$21,202,172 |
| Total | \$24,936,160 | \$26,749,033 | \$51,685,193 |
| Uses | | | |
| Planning | \$511,324 | \$531,784 | \$1,043,108 |
| Environmental Review | 46,484 | 48,344 | 94,828 |
| Design | 139,452 | 145,032 | 284,484 |
| Construction | 22,544,738 | 23,446,809 | 45,991,547 |
| Subtotal Project Costs | \$23,241,998 | \$24,171,969 | \$47,413,967 |
| Financing Costs | 1,694,162 | 2,577,064 | 4,271,226 |
| Total | \$24,936,160 | \$26,749,033 | \$51,685,193 |

⁸ According to Mr. Jacobo, Water Capacity Fees are paid by property owners to the PUC when new construction requires the PUC to expand water delivery capacity.

Advanced Meter Infrastructure (AMI) Project

The PUC's AMI Project would retrofit or replace all of the City's 180,000 existing visual-read conventional water meters with advanced digital water meters. As further discussed in the Background Section above, the Board of Supervisors previously appropriated \$58,747,600 for the AMI Project from the proceeds of lease financing proceeds (File 09-0548). Since that appropriation, the PUC has decided to fund the AMI Project through the expenditure of Water Revenue Bonds instead of lease financing proceeds in order to reduce overall financing costs⁹. The \$1,737,724,038 bond issuance ordinance (File 10-0341) includes \$62,000,000 for the AMI Project, which would be combined with other funding sources to finance the AMI Project budget of \$67,755,135, as shown in Table 4 below.

Table 4: Sources and Uses of Funds for the AMI Project

| Sources | |
|--|---------------------|
| Proposed Water Revenue Bonds | \$62,000,000 |
| PUC's Replacement and Retrofit Funds | 5,427,880 |
| Hunter's Point Shipyard Area Project Fund ¹⁰ | 327,255 |
| Total | \$67,755,135 |
| Uses | |
| Replacement of Water Meters 2 Inches and Under | \$51,588,000 |
| Retrofit of Water Meters 3 inches and Above | 147,982 |
| Data Collection Units | 360,022 |
| Software and Software Maintenance | 218,610 |
| Meter Pit Covers and Lids | 3,001,112 |
| Project Management, Training, and Programming | 68,295 |
| Performance and Payment Bond | 1,155,000 |
| Contingency | 2,745,843 |
| Optional Services | 3,129,754 |
| Optional Electrical Meters at Hunter's Point Shipyard Area | 327,255 |
| City Attorney, Department of Technology, and Other Costs | 1,679,755 |
| Subtotal Project Costs | \$64,421,627 |
| City Services Auditor | 81,108 |
| Financing Costs | 3,252,400 |
| Total | \$67,755,135 |

The Board of Supervisors previously appropriated \$58,747,600 from lease financing proceeds to the AMI Project (File 09-0548). According to Mr. Jacobo, although the PUC is changing the funding source from lease financing proceeds to Water Revenue Bond proceeds, the PUC would not be required to amend the previous appropriation of \$58,747,600 to represent this new source of funds. However, because the \$3,252,400 in needed financing costs shown in Table 4 above

⁹ According to Mr. Jacobo although the term of the proposed water bonds is 30 years, the subset of these bonds, which will fund the AMI Project, will have a maturity of 15 years. The average interest rate on such 15 year bonds is estimated to be 3.85 percent. In contrast, the bids received by the PUC for lease financing over 15 years included interest charges of 4.25 percent.

¹⁰ The PUC's Hunter's Point Shipyard Area Project would provide retail electricity service (for a fee which has yet to be determined) to the occupants of the residential and commercial construction planned under the San Francisco Redevelopment Agency's Hunter's Point Shipyard Area Redevelopment Project.

were inadvertently not included by the PUC in the subject proposed appropriation requests ¹¹, the Budget and Legislative Analyst recommends increasing the proposed appropriation ordinance for financing costs for the AMI Project (File 10-1038) by \$3,252,400, from \$30,483,021 to \$33,735,421.

FISCAL IMPACT

According to Mr. Jacobo, the proposed issuance of \$1,737,724,038 in Water Revenue Bonds will be sold in five issuances to minimize interest costs¹², as shown in Table 5 below.

Table 5: Anticipated Phases of Revenue Bond Issuance

| Anticipated Issuance Date | Project Funds | City Services Auditor and Revenue Bond Oversight Committee | Financing Costs ¹³ | Total |
|---------------------------|------------------------|--|-------------------------------|------------------------|
| October of 2011 | \$394,436,907 | \$780,576 | \$52,472,778 | \$447,690,261 |
| May of 2011 | 581,442,938 | 1,150,654 | 77,350,587 | 659,944,179 |
| May of 2012 | 404,861,663 | 801,206 | 53,859,606 | 459,522,475 |
| February of 2015 | 130,247,969 | 257,756 | 17,327,164 | 147,832,889 |
| October of 2016 | 20,029,966 | 39,639 | 2,664,629 | 22,734,234 |
| Total | \$1,531,019,443 | \$3,029,831 | \$203,674,764 | \$1,737,724,038 |

Mr. Jacobo estimates that the bonds will have an interest rate of 5.0 percent and terms of 30 years. Total debt service for the \$1,737,724,038 in Water Revenue Bonds over the 35 years that the bonds would be outstanding is estimated at \$3,565,823,979, including \$1,737,721,038 of principal and \$1,828,099,941 of interest, with an average annual debt service of \$101,880,685.

Mr. Jacobo advised that the debt service on all Water Revenue Bonds to fund the \$4,585,556,261 WSIP will be paid by the PUC’s customers who are charged for the use of water. Table 6 below shows the impact on water bills for an average single family residence.

¹¹ According to Mr. Jacobo, while it is currently the City’s practice to appropriate financing costs, when File 09-0548 was approved in October of 2009, it was not.

¹² According to Mr. Jacobo, using a phased issuance approach reduces interest costs by minimizing the time which elapses, during which interest costs are charged to the City, between the time when bonds are issued and when those bond proceeds are needed for project expenditure.

¹³ Financing Costs totaling \$203,674,764 include (a) Underwriter’s Discount costs of \$8,688,620, (b) Capitalized Interest costs of \$133,423,519, (c) Debt Service Reserve Funds of \$58,062,625, and (d) Costs of Issuance of \$3,500,000. Mr. Jacobo noted that the Financing Costs shown in Table 5 are estimates and subject to change due to market fluctuations.

Table 6: Impact of Water Revenue Bonds on the Monthly Water Charge for an Average Single Family Residence

| Cost Category | Average Cost | | | | |
|--|----------------|----------------|----------------|----------------|------------------------|
| | FY 10-11 | FY 11-12 | FY 12-13 | FY 13-14 | FY 14-15 ¹⁴ |
| Previously Authorized Water Bonds | \$11.96 | \$14.84 | \$15.34 | \$15.26 | \$15.73 |
| \$1,737,724,022 in Requested Water Bonds | \$0.00 | \$0.00 | \$4.12 | \$6.12 | \$10.68 |
| Future Authorized Water Bonds | \$0.00 | \$0.00 | \$0.00 | \$0.25 | \$0.94 |
| Subtotal Water Bond Debt Service | \$11.96 | \$14.84 | \$19.46 | \$21.63 | \$27.35 |
| Other Water Non-Debt Related Costs | \$18.59 | \$19.53 | \$19.20 | \$19.55 | \$17.95 |
| Total | \$30.55 | \$34.37 | \$38.66 | \$41.18 | \$45.30 |

POLICY CONSIDERATIONS

The PUC is requesting an appropriation to fund WSIP project costs through the completion of WSIP in December of 2015 (File 10-0337).

On December 16, 2008, the Board of Supervisors appropriated \$1,923,629,194 in Water Revenue Bond proceeds to fund approximately 18 months of WSIP project costs, from January 1, 2009 through June 30, 2010¹⁵ (File 08-1453). However, that appropriation included \$71,456,446, for expenditures after June 30, 2010 in order to fund the projects which would award construction contracts prior to June 30, 2010.

The PUC is now requesting an appropriation of \$1,647,249,198 in Water Revenue Bond Proceeds (see Table 2 above) to fund WSIP projects in FY 2010-2011 and FY 2011-2012, in accordance with two-year budgeting cycle requirement imposed by Proposition A approved by the voters of San Francisco in November of 2009. Similar to the previous appropriation discussed above, the proposed appropriation includes \$241,072,141 which would be expended after June 30, 2010 in order to fund projects which, according to Mr. Jacobo, would include the award of construction contracts prior to June 30, 2012.

However, \$116,863,924 of the requested appropriation would be expended after June 30, 2012 on projects that would not begin construction until after June 30, 2012, such that the Budget and Legislative Analyst recommends placing \$116,863,924 on Budget and Finance Committee reserve pending submission of an updated WSIP expenditure plan subsequent to January 1, 2012 but prior to June 30, 2012. The specific projects and reserve amounts are shown below in Table 7.

¹⁴ Water rates in FY 2014-2015 are projected, because water rates have only been approved through FY 2013-2014.

¹⁵ Previous WSIP appropriations were made on a calendar year basis. The \$1,923,629,194 appropriation for 18 months of spending through June 30, 2010 approved in File 08-1453 was intended to re-align WSIP appropriations to fiscal years.

Table 7: Projects With Construction Start Dates After June 30, 2012

| Project | Expenditures After June 30, 2012 |
|--|----------------------------------|
| Upper Alameda Creek Filter Gallery (Sunol Valley Region) | \$15,314,352 |
| Peninsula Pipelines Seismic Upgrade (Peninsula Region) | 10,242,545 |
| Regional Groundwater Storage and Recovery (San Francisco Region) | 33,490,259 |
| Lake Merced Water Level Restoration (Standalone Project) | 22,919,437 |
| Program Management (System Wide Region) | 34,897,331 |
| Total | \$116,863,924 |

The PUC is requesting \$1,647,249,198 in bond proceeds to fund WSIP Projects, but currently has \$1,619,566,271 in previously appropriated and unencumbered funds.

The Board of Supervisors previously appropriated \$2,938,307,062 to fund the PUC’s WSIP projects. However, as of January 31, 2010, \$1,619,566,271, or 55.1 percent, remains unexpended and unencumbered. According to Mr. Jacobo, the unexpended and unencumbered funds totaling \$1,619,566,271 will be expended or encumbered by June 30, 2011, including (a) \$127,111,812, or 7.9 percent, by June 30, 2010, (b) \$871,705,306, or 53.8 percent, by September 30, 2010, (c) \$288,757,124, or 17.8 percent, by December 31, 2010, (d) \$68,818,292, or 4.3 percent, by March 31, 2011, and the remaining \$263,173,737, or 16.2 percent, by June 30, 2011.

Mr. Jacobo stated that the delay in encumbering a majority of the \$1,619,566,271 in previously appropriated but unencumbered funds, specifically approximately \$908,000,000 or 56.1 percent, was due to delays in the award of construction contracts for three large projects, (a) the Calaveras Dam Replacement Project, (b) the New Irvington Tunnel Project, and (c) the Bay Division Pipeline Reliability Upgrade Project. According to Mr. Jacobo, award of a construction contract was delayed for (a) the Calaveras Dam Replacement Project because of the unanticipated discovery of naturally occurring asbestos at the project site and project scope changes required to accommodate the return of steelhead trout to the Alameda Creek, (b) the New Irvington Tunnel because of delays in the environmental review process, and (c) the Bay Division Pipeline Reliability Project because of an extension in the proposal submission deadline in order to increase the number of competitive bids. Mr. Jacobo noted that (a) the PUC anticipates advertising the bid for the Calaveras Dam Replacement Project in August of 2010, (b) the PUC is currently evaluating bids received on April 1, 2010 for the New Irvington Tunnel Project, and (c) the PUC is in the process of awarding the construction contract for the Bay Division Pipeline Reliability Upgrade Project.

As discussed above, although the PUC currently has \$1,619,566,271 in unencumbered and unexpended funds, such funds are unencumbered and unexpended because of project delays, not

because project costs have decreased. Therefore, the requested appropriation of \$1,647,249,198 in Water Revenue Bond Proceeds would not result in the overfunding of WSIP projects.

The total budgeted cost of the WSIP projects has increased by \$956,756,000, or 26.4 percent, from the initial February 2003 estimate of \$3,628,800,000 to the current budget of \$4,585,556,000¹⁶.

In February of 2003, when the PUC submitted its WSIP to the State for program level approval, the PUC estimated the total budget of the WSIP at \$3,628,800,000¹⁷. Table 8 below shows each subsequent increase of the total WSIP budget, and an accounting of each cost increase is provided in Attachment III, provided by the PUC.

Table 8: Increases in WSIP Cost Estimates

| Budget Approval Date | Total Budgeted Cost | Increase from Previous Budget | Percent Increase |
|-----------------------------|---------------------|-------------------------------|------------------|
| February 2003 | \$3,628,800,000 | - | - |
| December 2005 | 4,343,800,000 | \$715,000,000 | 20% |
| December 2007 | 4,392,800,000 | \$49,000,000 | 1% |
| June 2009 ¹⁸ | 4,586,556,000 | \$193,756,000 | 4% |
| Total Cost Increases | | \$957,756,000 | 26% |

While Attachment III accounts for all changes to the total WSIP budgets shown in Table 8 above, the Budget and Legislative Analyst notes that the largest single factor that resulted in the cost increases is expansion of projects to meet Level of Service Goals adopted by the PUC in January of 2005, or two and half years after the initial estimate of \$3,628,800,000 for total WSIP costs was made in July of 2002. According to Attachment IV, adoption of Level of Service Goals increased WSIP costs by \$1,003,000,000 (although, as detailed in Attachment IV, some of this increase was offset by cost reductions in other areas). According to Mr. Jacobo, the Level of Service Goals provided specific objectives, such as (a) the capacity to provide 215 million gallons of water per day within 24 hours of a major earthquake, or (b) sufficient system redundancy such that in the event of an unplanned facility failure the PUC could deliver 300 million gallons of water per day.

Table 9 below shows the cost increases of the five largest WSIP Projects (based on current total budgeted cost), which are currently budgeted to cost a total of \$2,118,069,059, or 46.2 percent of the \$4,586,556,000 total WSIP cost.

¹⁶ For the purposes of comparing total WSIP cost over time, the PUC rounded the current estimated cost of \$4,585,556,261 to \$4,585,556,000.

¹⁷ According to Mr. Jacobo, although the PUC had cost estimates for the projects which would ultimately be included in WSIP, the projects were not formally adopted by the PUC until February of 2003, as required by California State Assembly Bill AB1823.

¹⁸ The most current estimate of total WSIP costs, provided in the WSIP Quarterly Report published on February 17, 2010, is \$4,572,440,000, or 0.3 percent less than the current budget of \$4,585,556,000. However, because this estimate is has not been adopted by the PUC as a revised budget, the current approved budget is used for the purposes of this report.

Table 9: Budgeted Increases for the Five Costliest WSIP Projects

| Date of Budget Approval | BDPL Reliability Upgrade | Calaveras Dam Replacement | New Irvington Tunnel & Alameda Siphon #4 | Harry Tracy Water Treatment Plant | San Joaquin Pipeline | Total |
|-----------------------------|--------------------------|---------------------------|--|-----------------------------------|----------------------|------------------------|
| July 2002 | \$248,969,805 | \$150,000,000 | \$143,928,778 | \$37,391,665 | \$391,379,655 | \$971,669,903 |
| December 2005 ¹⁹ | 572,022,634 | 265,928,462 | 293,227,004 | 167,570,000 | 432,732,000 | \$1,731,480,100 |
| December 2007 | 616,545,091 | 342,390,969 | 404,539,676 | 175,760,181 | 360,346,388 | \$1,899,582,305 |
| June 2009 | 600,174,492 | 450,337,994 | 398,585,442 | 359,063,409 | 309,907,722 | \$2,118,069,059 |
| Total Increase | \$351,204,687 | \$300,337,994 | \$254,656,664 | \$321,671,744 | -\$81,471,933 | \$1,146,399,156 |
| Percent Increase | 141% | 200% | 177% | 860% | -21% | 118% |

Attachment IV, provided by the PUC, describes the changes in the total estimated cost of each of the five projects shown above in Table 9.

As it relates to San Francisco's portion of WSIP costs, the voters of San Francisco approved Proposition A in November of 2002 which authorized the PUC to issue up to \$1,628,000,000 in Water Revenue Bonds to fund San Francisco's portion of WSIP. San Francisco's portion of WSIP was determined by formula, such that San Francisco's portion would include (a) all San Francisco Local Project costs, (b) one third of the WSIP Regional Project costs, and (c) a proportional amount of the financing costs. Table 10 below shows that San Francisco's portion of total WSIP costs, based on the June 2009 approved budget, is \$1,974,257,017.

Table 10: San Francisco's Portion of Current WSIP Budget

| Row | Project Cost Calculation | |
|-----------------------------------|---|------------------------|
| A | San Francisco Local Projects | \$599,830,111 |
| B | Regional Projects | 3,514,026,150 |
| C | San Francisco's Portion (A + B/3) | \$1,771,172,161 |
| Financing Cost Calculation | | |
| D | San Francisco's Portion of Project Costs (=C) | \$1,771,172,161 |
| E | Total WSIP Project Costs (A + B) | 4,113,856,261 |
| F | Percent of San Francisco's Portion to Total Project Costs (D / E) | 43% |
| G | Total WSIP Financing Costs | 471,700,000 |
| H | San Francisco's Portion of Financing Costs (F x G) | \$203,084,856 |
| | Total Portion of WSIP Costs for San Francisco (C + H) | \$1,974,257,017 |

Of the total PUC WSIP costs of \$4,585,556,000, the Budget and Legislative Analyst notes that San Francisco's portion of WSIP costs is \$1,974,257,017, which is \$346,257,017, or 21 percent, greater than the \$1,628,000,000 approved by the voters in Proposition A in 2002. According to

¹⁹ According to Mr. Jacobo, a large portion of the project level increase from July 2002 to December of 2005 is due to reallocation of escalation and reserve budgets, which were previously budgeted at the program level, to individual projects.

Mr. Jacobo, this increase of \$346,257,017 will be paid from Water Revenue Bonds being requested in File 10-0341 under the unlimited bond issuance authority provided in Proposition E, as discussed above, subject to approval of two-thirds of the Board of Supervisors. According to Mr. Jacobo, the debt service on such Proposition E authority bonds will be allocated to San Francisco and regional water rate payers according to the formula discussed above.

RECOMMENDATIONS

1. Amend the proposed ordinances to correct for the typographical errors described below in Table 11.

| File | Uncorrected Version | Corrected Version (Changes Underlined) |
|---------|--|---|
| 10-0341 | Authorizes a bond issuance not-to-exceed \$1,737,724,022 | Authorizes a bond issuance not-to-exceed \$1,737,724, <u>038</u> |
| 10-0337 | Appropriates \$1,647,249,198 for expenditure in FY 2009-2010 | Appropriates \$1,647,249,198 for expenditure in <u>FY 2010-2011</u> through <u>FY 2015-2016</u> . |
| 10-0338 | Appropriates \$30,483,021 for expenditure in FY 2009-2010 | Appropriates \$30,483,021 for expenditure in <u>FY 2010-2011</u> and <u>FY 2011-2012</u> . |

2. Amend the proposed ordinance (File 10-0337) to place \$116,863,924 which will not be expended until after June 30, 2012 on Budget and Finance Committee reserve pending submission by the PUC of updated expenditure plans subsequent to January 1, 2012 but prior to June 30, 2012.
3. Amend the proposed ordinance (File 10-0338) to increase the appropriation by \$3,252,400 in Water Revenue Bond proceeds in order to fund the needed financing costs for the AMI Project, increasing the total appropriation amount from \$30,483,021 to \$33,735,421.
4. Approve the proposed ordinances, as amended.



Harvey M. Rose

cc: Supervisor Avalos
 Supervisor Mirkarimi
 Supervisor Elsbernd
 President Chiu
 Supervisor Alioto-Pier
 Supervisor Campos
 Supervisor Chu
 Supervisor Daly
 Supervisor Dufty
 Supervisor Mar
 Supervisor Maxwell
 Clerk of the Board
 Cheryl Adams
 Controller
 Greg Wagner

| Project | A B C D | | | | E | | I | | Total Project Cost less Total Budget Appropriation to Date | Supplemental Appropriation Request 2010 - 11 | Total Remaining FY Expenditures |
|---|----------------------------|-------------------------------------|----------------------------|-------------|---------------------|------------------|-----------------------|---------------|--|--|---------------------------------|
| | SFPUC 2009 Approved Budget | Total Budget Appropriations to Date | Expended as of Feb 1, 2010 | Encumbered | Unencumbered Budget | Remaining Budget | Appropriation to Date | | | | |
| LAWRENCE LIVERMORE SUPPLY IMPROVEMENTS | | | | | | | | | | | |
| CUW364 | 3,900,231 | 4,356,201 | 2,014,906 | 1,811,287 | 528,109 | (454,970) | 0 | 74,139 | | | |
| CUW373 | 309,907,722 | 92,300,142 | 38,996,750 | 14,083,993 | 38,219,999 | 217,607,580 | 217,153,487 | 255,828,456 | | | |
| CUW384 | 114,162,348 | 108,600,032 | 51,170,242 | 51,181,556 | 6,248,234 | 5,562,316 | 5,562,316 | 11,810,550 | | | |
| CUW387 | 2,082,155 | 2,081,278 | 2,081,278 | 0 | 0 | 877 | 0 | 0 | | | |
| SAN JOAQUIN WATER SYSTEM IMPROVEMENT PROJECTS | | | | | | | | | | | |
| CUW352 | 430,052,456 | 207,336,653 | 95,263,076 | 67,076,236 | 44,997,342 | 222,715,803 | 222,715,803 | 257,713,145 | | | |
| CUW352 | 21,855,361 | 4,896,252 | 1,830,868 | 169,934 | 2,895,450 | 17,019,109 | 17,019,109 | 19,854,559 | | | |
| CUW355 | 13,110,232 | 13,110,232 | 12,618,524 | 168,588 | 323,120 | 0 | 0 | 323,120 | | | |
| CUW359 | 398,585,442 | 354,416,233 | 43,801,490 | 40,600,213 | 270,014,530 | 44,169,209 | 44,169,209 | 314,163,739 | | | |
| CUW370 | 5,407,880 | 5,653,459 | 5,193,500 | 0 | 489,959 | (245,579) | 0 | 214,380 | | | |
| CUW374 | 450,337,994 | 281,849,551 | 42,090,258 | 6,274,195 | 233,485,098 | 168,488,443 | 167,179,342 | 401,973,541 | | | |
| CUW381 | 144,907,028 | 125,795,940 | 13,608,841 | 2,014,964 | 110,172,135 | 19,111,088 | 19,111,088 | 129,283,223 | | | |
| CUW382 | 5,070,808 | 5,245,892 | 5,056,594 | 0 | 189,298 | (175,084) | 0 | 14,214 | | | |
| CUW388 | 14,712,922 | 15,601,360 | 3,032,989 | 8,314,080 | 4,254,281 | (888,438) | 0 | 3,365,843 | | | |
| SUNOL VALLEY WATER SYSTEM IMPROVEMENT PROJECTS | | | | | | | | | | | |
| CUW353 | 1,053,997,567 | 806,508,919 | 127,233,074 | 57,541,974 | 621,733,871 | 247,478,748 | 247,478,748 | 869,212,619 | | | |
| CUW353 | 112,924,498 | 39,288,719 | 34,130,078 | 3,152,550 | 2,006,091 | 73,635,779 | 72,811,050 | 75,522,726 | | | |
| CUW363 | 27,612,884 | 24,298,028 | 7,511,697 | 9,777,630 | 10,008,699 | 3,314,838 | 3,314,838 | 13,323,537 | | | |
| CUW368 | 600,174,492 | 549,994,794 | 57,405,777 | 87,516,159 | 405,072,857 | 50,179,698 | 50,179,698 | 455,252,555 | | | |
| CUW380 | 33,944,441 | 34,506,566 | 8,512,298 | 14,664,833 | 11,329,438 | (562,127) | 0 | 10,767,311 | | | |
| CUW389 | 8,429,072 | 8,599,723 | 8,546,573 | 1,643 | 51,507 | (170,651) | 0 | 83,840 | | | |
| CUW393 | 2,028,308 | 2,120,259 | 1,991,870 | 42,588 | 185,791 | (91,951) | 0 | 93,840 | | | |
| BAY DIVISION WATER SYSTEM IMPROVEMENT PROJECTS | | | | | | | | | | | |
| CUW354 | 785,113,675 | 658,808,089 | 117,998,293 | 112,155,413 | 428,654,383 | 126,305,586 | 126,305,586 | 554,959,969 | | | |
| CUW354 | 36,253,097 | 26,595,785 | 8,552,400 | 1,430,244 | 16,613,141 | 9,657,312 | 9,657,312 | 26,270,453 | | | |
| CUW356 | 94,608,998 | 100,623,562 | 41,431,346 | 45,169,654 | 14,022,562 | (6,014,566) | 0 | 8,007,996 | | | |
| CUW357 | 2,792,885 | 3,236,526 | 2,787,323 | 0 | 449,203 | (443,641) | 0 | 5,562 | | | |
| CUW361 | 34,089,826 | 42,101,697 | 9,631,000 | 17,745,595 | 15,525,162 | (8,001,871) | 0 | 7,523,291 | | | |
| CUW365 | 3,802,674 | 6,244,597 | 3,811,559 | 68,588 | 2,364,450 | (2,441,923) | 0 | 0 | | | |
| CUW366 | 24,038,226 | 25,453,204 | 22,113,115 | 1,102,933 | 2,237,157 | (1,414,978) | 0 | 822,179 | | | |
| CUW36701 | 369,063,409 | 31,284,528 | 17,401,361 | 266,595 | 13,616,572 | 327,778,881 | 304,972,087 | 341,295,131 | | | |
| CUW36702 | 15,000,000 | 3,934,000 | 0 | 0 | 3,934,000 | 11,066,000 | 11,066,000 | 15,000,000 | | | |
| CUW369 | 2,818,378 | 3,494,361 | 2,803,152 | 38,076 | 663,123 | (675,973) | 0 | 0 | | | |
| CUW371 | 192,070,722 | 21,521,440 | 17,953,193 | 2,024,225 | 1,544,022 | 170,549,282 | 170,549,282 | 172,093,304 | | | |
| CUW378 | 71,243,333 | 9,925,637 | 8,472,140 | 963,525 | 489,971 | 61,317,696 | 61,317,696 | 61,807,667 | | | |
| CUW379 | 31,993,033 | 34,503,085 | 8,759,916 | 17,289,075 | 8,457,094 | (2,600,032) | 0 | 5,857,042 | | | |
| CUW391 | 27,089,503 | 28,303,293 | 9,136,941 | 13,962,823 | 5,293,529 | (1,213,730) | 0 | 3,989,739 | | | |
| PENINSULA WATER SYSTEM IMPROVEMENT PROJECTS | | | | | | | | | | | |
| CUW30103 | 894,784,082 | 337,221,705 | 152,050,445 | 100,061,274 | 85,109,936 | 557,562,377 | 557,562,377 | 642,572,364 | | | |
| CUW30103 | 49,848,731 | 12,275,175 | 5,292,382 | 1,721,670 | 5,321,123 | 37,573,556 | 16,250,288 | 42,894,679 | | | |
| CUW358 | 64,394,929 | 65,922,928 | 64,111,856 | 79,394 | 1,731,738 | (1,587,989) | 0 | 143,739 | | | |
| CUW372 | 46,146,700 | 65,881,969 | 8,785,031 | 32,133,033 | 24,993,905 | (19,736,269) | 0 | 5,228,636 | | | |
| SAN FRANCISCO REGIONAL WATER SYSTEM PROJECTS | | | | | | | | | | | |
| CUW388 01 | 160,330,360 | 144,080,072 | 78,129,269 | 33,934,037 | 32,016,766 | 16,250,288 | 16,250,288 | 48,267,054 | | | |
| CUW388 01 | 11,086,441 | 10,918,172 | 10,517,619 | 348,599 | 51,954 | 168,269 | 168,269 | 220,223 | | | |
| CUW388 02 | 48,146,219 | 6,859,832 | 4,622,874 | 1,551,166 | 765,772 | 41,286,387 | 41,286,387 | 42,072,159 | | | |
| CUW392 | 110,525,250 | 54,720,478 | 41,579,893 | 8,426,124 | 4,714,461 | 55,804,772 | 55,804,772 | 60,519,233 | | | |
| CUW394 | 20,000,000 | 6,815,114 | 370,065 | 0 | 6,445,049 | 13,184,886 | 13,184,886 | 19,629,935 | | | |
| SYSTEM WIDE REGION | | | | | | | | | | | |
| CUW391 | 189,787,910 | 79,313,596 | 56,990,451 | 10,325,909 | 11,997,235 | 110,444,314 | 110,444,314 | 122,441,549 | | | |
| TOTAL REGIONAL PROJECTS | | | | | | | | | | | |
| | 3,514,025,150 | 2,233,269,034 | 627,664,608 | 381,094,942 | 1,224,509,583 | 1,280,757,116 | 1,280,757,116 | 2,505,266,700 | | | |

| Project | SFY09 July, 2009 Total Approved Budget | Total Budget Appropriations to Date | Expended as of Feb 1, 2010 | Encumbered | Unencumbered Remaining Budget | Total Project Cost less Total Budget Appropriation to Date | Supplemental Appropriation Request 2010 - 11 | Total Remaining FY Expenditures |
|---|--|-------------------------------------|----------------------------|--------------------|-------------------------------|--|--|---------------------------------|
| | | | | | | | | |
| CUW907 SUMMIT RES REHAB/SEISMIC UPGRADE | 13,050,000 | 14,321,086 | 12,061,953 | 1,536,416 | 723,716 | (1,271,086) | 0 | 0 |
| CUW919 HUNTERS POINT RES REHAB/SEISMIC UPGRADE | 8,925,000 | 501,324 | 319,742 | 0 | 181,582 | 8,423,676 | 8,423,676 | 8,605,258 |
| CUW934 STANFORD HEIGHTS RES REHAB/UPGRADE | 24,110,000 | 26,150,000 | 22,944,300 | 1,377,078 | 828,622 | (1,040,000) | 0 | 0 |
| CUW935 POTRERO HEIGHTS RES REHAB/UPGRADE | 6,838,947 | 7,267,369 | 6,836,736 | 0 | 430,633 | (428,422) | 0 | 0 |
| CUW937 SUTRO RES - REHAB/SEISMIC UPGRADE | 56,785,000 | 35,896,928 | 1,885,957 | 773,789 | 33,437,073 | 20,888,172 | 18,148,664 | 53,568,708 |
| SAN FRANCISCO LOCAL RESERVOIRS | 109,708,947 | 83,136,607 | 43,848,698 | 3,686,284 | 35,601,625 | 26,572,340 | 26,572,340 | 62,173,865 |
| CUW906 CROCKER AMAZON PUMP STATION UPGRADE | 4,126,498 | 4,286,092 | 4,103,838 | 0 | 152,254 | (129,594) | 0 | 0 |
| CUW909 LAKE MERCED PUMP STATION UPGRADE | 49,340,000 | 70,459,755 | 10,157,512 | 30,810,706 | 29,491,537 | (21,119,755) | 0 | 8,371,782 |
| CUW914 LA GRANDE TANK REHAB/SEISMIC UPGRADE | 6,967,728 | 7,101,112 | 6,967,688 | 0 | 113,424 | (113,384) | 0 | 0 |
| CUW918 FOREST HILL TANK REHAB/SEISMIC UPGRADE | 2,936,199 | 2,941,594 | 2,936,199 | 0 | 5,395 | (5,395) | 0 | 0 |
| CUW920 FOREST HILL PUMP STATION UPGRADE | 7,200,000 | 6,325,890 | 423,567 | 123,699 | 5,778,624 | 874,110 | 0 | 6,652,734 |
| CUW921 FOREST KNOLLS PUMP STATION UPGRADE | 6,395,000 | 6,966,000 | 6,138,770 | 13,039 | 814,191 | (571,000) | 0 | 243,191 |
| CUW922 LINCOLN PARK PUMP STATION UPGRADE | 4,341,621 | 4,741,646 | 4,343,567 | 0 | 398,079 | (400,025) | 0 | 0 |
| CUW923 MCCLAREN PARK PUMP STATION UPGRADE | 29,352,400 | 31,225,000 | 28,228,503 | 2,067,490 | 929,007 | (1,872,600) | 0 | 1,123,897 |
| CUW924 MOUNT DAVIDSON PUMP STATION UPGRADE | 4,573,500 | 4,110,238 | 4,110,238 | 169,115 | 1,576,645 | (1,282,500) | 0 | 294,145 |
| CUW925 PALO ALTO PUMP STATION UPGRADE | 6,484,000 | 6,618,406 | 6,073,308 | 351,292 | 193,806 | (134,406) | 0 | 59,400 |
| CUW926 SKY VIEW/AQUA VISTA PUMP ST UPGRADES | 4,920,000 | 5,574,275 | 4,739,797 | 0 | 834,478 | (654,275) | 0 | 0 |
| CUW927 SUMMIT PUMP STATION UPGRADE | 6,531,105 | 7,172,573 | 6,528,946 | 0 | 643,627 | (641,468) | 0 | 0 |
| CUW928 MCCLAREN #1 TANK REHAB/SEISMIC UPGRADE | 4,684,430 | 5,096,799 | 4,659,453 | 0 | 437,346 | (412,369) | 0 | 0 |
| CUW929 POTRERO HEIGHTS TANK REHAB/UPGRADE | 1,084,863 | 1,261,584 | 1,084,863 | 0 | 176,721 | (176,721) | 0 | 0 |
| CUW930 FOREST KNOLLS TANK REHAB/UPGRADE | 3,675,000 | 3,900,000 | 3,404,029 | 29,056 | 466,915 | (225,000) | 0 | 0 |
| CUW931 LINCOLN PARK TANK REHAB/SEISMIC UPGRADE | 2,690,666 | 3,073,146 | 2,690,666 | 0 | 382,490 | (382,490) | 0 | 0 |
| CUW932 MCCLAREN #2 TANK REHAB/SEISMIC UPGRADE | 4,459,119 | 5,230,705 | 4,458,201 | 0 | 772,504 | (771,586) | 0 | 0 |
| CUW933 MOUNT DAVIDSON TANK REHAB/UPGRADE | 2,894,000 | 4,100,000 | 1,948,681 | 742,396 | 1,408,922 | (1,206,000) | 0 | 202,922 |
| CUW938 LE GRANDE PUMP STATION UPGRADE | 7,205,000 | 7,286,000 | 929,444 | 67,130 | 6,289,426 | (61,000) | 0 | 4,369,947 |
| CUW939 POTRERO HEIGHTS PUMP STATION UPGRADE | 605,670 | 725,000 | 605,670 | 0 | 119,330 | (119,330) | 0 | 0 |
| CUW940 VISTA FRANCISCO PUMP STATION UPGRADE | 6,950,900 | 6,955,000 | 2,446,579 | 2,325,055 | 2,193,356 | (4,100) | 0 | 2,179,256 |
| SAN FRANCISCO LOCAL PUMP STATION/TANKS | 167,437,689 | 196,846,577 | 106,999,511 | 36,699,988 | 53,148,078 | (29,408,888) | (29,408,888) | 23,739,180 |
| CUW904 NORTH UNIVERSITY MOUND SYSTEM UPGRADE | 12,850,000 | 16,800,000 | 9,427,937 | 2,115,087 | 5,256,977 | (3,950,000) | 0 | 1,306,977 |
| CUW908 KEY MOTORIZED/OTHER CRITICAL VALVES | 10,984,748 | 11,773,385 | 10,984,746 | 0 | 788,639 | (788,639) | 0 | 0 |
| CUW911 SUNSET CIRCULATION IMPROVEMENTS | 6,983,984 | 6,984,012 | 6,983,984 | 0 | 28 | (28) | 0 | 0 |
| CUW912 LINCOLN WAY TRANSMISSION LINE | 13,950,000 | 14,736,930 | 13,766,196 | 271,262 | 698,472 | (785,930) | 0 | 0 |
| CUW913 NOE VALLEY TRANSMISSION MAIN PH2 | 7,392,000 | 12,000,000 | 4,658,518 | 987,694 | 6,353,788 | (4,618,000) | 0 | 1,648,330 |
| CUW915 EAST WEST TRANSMISSION MAIN | 28,600,000 | 28,600,000 | 27,505,719 | 40,510 | 1,053,771 | (688,631) | 0 | 1,053,771 |
| CUW916 FULTON@5TH 30" MAIN REPLACEMENT | 4,707,759 | 5,396,390 | 4,707,759 | 0 | 688,631 | (688,631) | 0 | 0 |
| SAN FRANCISCO LOCAL PIPELINE/VALVES | 85,458,489 | 96,289,717 | 78,034,858 | 3,414,553 | 14,840,306 | (10,831,228) | (10,831,228) | 4,009,078 |
| CUW903 VEHICLE SERVICE & FACILITY UPGRADE | 4,461,400 | 5,371,000 | 3,972,170 | 2,626 | 1,396,203 | (909,600) | 0 | 486,603 |
| CUW905 FIRE PROTECTION AT CDD | 1,675,476 | 1,675,476 | 1,675,476 | 0 | 0 | 0 | 0 | 0 |
| SAN FRANCISCO LOCAL MISCELLANEOUS | 6,136,876 | 7,046,476 | 5,647,646 | 2,626 | 1,396,203 | (909,600) | (909,600) | 486,603 |
| CUW90101 LAKE MERCED WATER LEVEL RESTORATION | 32,667,508 | 10,260,374 | 6,511,796 | 612,197 | 3,136,381 | 22,407,134 | 22,407,134 | 25,543,515 |
| CUW90102 SAN FRANCISCO GROUNDWATER SUPPLY | 38,700,004 | 7,573,451 | 3,775,913 | 890,329 | 2,907,209 | 31,126,553 | 31,126,553 | 34,033,762 |
| CUW90201 RECYCLED WATER PROJECT SAN FRANCISCO | 125,922,889 | 15,176,667 | 7,955,388 | 1,255,422 | 7,165,862 | 110,146,222 | 110,146,222 | 117,312,084 |
| CUW90202 RECYCLED WATER PROJECT PACIFICA (Closed) | 348,207 | 70,336 | 70,336 | 0 | 0 | 277,871 | 0 | 0 |
| CUW90204 HARDING PARK RECYCLED WATER | 9,611,818 | 10,527,200 | 971,478 | 435,822 | 9,119,900 | (915,382) | 0 | 8,204,516 |
| CUW90205 SAN FRANCISCO EASTSIDE RECYCLED WATER | 22,900,000 | 3,730,000 | 0 | 38,016 | 3,691,984 | 19,170,000 | 18,289,668 | 23,910,213 |
| CUW990 SF BAY AREA DESALINATION PLANT | 937,694 | 1,180,485 | 187,326 | 0 | 1,013,159 | (242,801) | 0 | 0 |
| TOTAL LOCAL PROJECTS | 699,830,111 | 432,437,890 | 253,392,945 | 47,034,237 | 132,020,708 | 167,392,221 | 167,392,221 | 299,412,923 |
| TOTAL WSP PROJECTS | 4,130,566,261 | 2,669,706,924 | 891,047,553 | 428,129,079 | 1,365,530,292 | 1,487,149,337 | 1,446,146,337 | 2,804,679,620 |
| CUW900 BOND/COMMERCIAL PAPER EXPENSE | 47,700,000 | 2,260,138 | 9,461,718 | 0 | 263,085,979 | 99,099,862 | 99,099,862 | 487,355,840 |
| TOTAL WATER SYSTEM IMPROVEMENT PROGRAM | 4,585,556,281 | 2,938,307,062 | 850,509,271 | 428,231,520 | 1,619,566,271 | 1,647,249,199 | 1,647,249,199 | 3,266,815,463 |

| SFPUC San Francisco Public Utilities Commission | Spending from Feb 1, 2010 to June 30, 2010 | FY 2010-2011 | FY 2011-2012 | July 1, 2012 through Dec 31, 2015 | Total |
|--|--|----------------------|---------------------|--------------------------------------|----------------------|
| 02CIP: 2002 Water System Improvement Program | \$127,111,812 | \$2,067,047,152 | \$369,448,524 | \$241,072,141 | \$2,804,679,629 |
| RW Regional Water Program | \$105,087,663 | \$2,022,274,452 | \$186,602,719 | \$191,301,866 | \$2,505,266,700 |
| RWS San Joaquin Region | \$1,044,439 | \$231,873,583 | \$14,059,352 | \$10,437,432 | \$257,414,806 |
| CUW38401 Lawrence Livermore Supply Improvements | \$74,139 | | | | \$74,139 |
| Labor | \$62,660 | | | | \$62,660 |
| Other City Departments | | | | | |
| Other Direct Charges | | | | | |
| Construction | | | | | |
| Consultant: PM | | | | | |
| Consultant: PL | | | | | |
| Consultant: ER | | | | | |
| Consultant: RW | | | | | |
| Consultant: DS | | | | | |
| Consultant: CM | \$11,479 | | | | \$11,479 |
| CUW37301 San Joaquin Pipeline System | \$6,282,747 | \$224,812,350 | \$12,485,947 | \$10,437,412 | \$256,828,456 |
| Labor | \$2,065,305 | \$5,127,584 | \$3,053,801 | \$3,319,940 | \$13,566,631 |
| Other City Departments | \$444,704 | \$276,932 | \$153,742 | \$180,185 | \$1,055,564 |
| Other Direct Charges | \$1,652,231 | \$3,538,575 | \$2,525,644 | \$280,807 | \$7,995,357 |
| Construction | | \$204,063,175 | | \$220,001 | \$204,283,176 |
| Consultant: PM | \$326,453 | | | \$22,641 | \$349,094 |
| Consultant: PL | | | | | |
| Consultant: ER | \$859,781 | \$1,812,420 | | | \$2,672,201 |
| Consultant: RW | \$908,705 | \$737,872 | | | \$1,646,577 |
| Consultant: DS | \$1,162,331 | \$3,485,029 | | | \$4,647,360 |
| Consultant: CM | \$875,236 | \$5,572,763 | \$6,752,760 | \$6,413,737 | \$19,814,496 |
| CUW38401 Tesla Treatment Facility | \$2,977,312 | \$7,269,233 | \$1,574,008 | | \$11,810,553 |
| Labor | \$568,492 | \$2,366,030 | \$1,390,442 | | \$4,325,964 |
| Other City Departments | \$91,933 | \$445,540 | \$183,583 | | \$721,036 |
| Other Direct Charges | \$154,736 | \$866,741 | | | \$1,021,477 |
| Construction | \$1,489,678 | \$2,512,198 | | | \$4,001,876 |
| Consultant: PM | | | | | |
| Consultant: PL | | | | | |
| Consultant: ER | | | | | |
| Consultant: RW | | | | | |
| Consultant: DS | | | | | |
| Consultant: CM | \$671,473 | \$1,068,724 | | | \$1,740,197 |
| RWS San Alameda Region | \$2,332,160 | \$731,917,615 | \$8,578,510 | \$55,980,427 | \$869,222,839 |
| CUW35201 Upper Alameda Creek Filter Gallery | \$2,406,460 | \$1,085,133 | \$1,048,623 | \$15,314,352 | \$19,854,559 |
| Labor | \$1,202,812 | \$695,727 | \$528,249 | \$1,031,223 | \$3,459,010 |
| Other City Departments | | \$17,335 | \$19,987 | \$17,101 | \$54,423 |
| Other Direct Charges | | \$5,434 | \$8,562 | \$1,002,986 | \$1,014,962 |
| Construction | | | | \$12,888,000 | \$12,888,000 |
| Consultant: PM | \$3,930 | | \$17,428 | | \$21,358 |
| Consultant: PL | \$236,308 | | | | \$236,308 |
| Consultant: ER | \$963,400 | \$365,637 | \$476,397 | \$375,062 | \$2,180,497 |
| Consultant: RW | | | | | |
| Consultant: DS | | | | | |
| Consultant: CM | | | | | |
| CUW35501 Standby Power Facilities - Various Locations | \$323,120 | | | | \$323,120 |
| Labor | \$102,038 | | | | \$102,038 |
| Other City Departments | \$2,308 | | | | \$2,308 |
| Other Direct Charges | \$92,727 | | | | \$92,727 |
| Construction | | | | | |
| Consultant: PM | | | | | |
| Consultant: PL | | | | | |
| Consultant: ER | | | | | |
| Consultant: RW | | | | | |
| Consultant: DS | | | | | |
| Consultant: CM | \$126,047 | | | | \$126,047 |
| CUW35901 New Irvington Tunnel | \$6,281,957 | \$280,639,238 | \$6,425,247 | \$10,837,287 | \$314,183,739 |
| Labor | \$2,138,634 | \$1,433,637 | \$1,382,850 | \$2,466,537 | \$7,421,657 |
| Other City Departments | \$334,411 | \$130,345 | \$130,345 | \$223,673 | \$818,774 |
| Other Direct Charges | \$2,405 | \$1,584,751 | \$6,041 | \$10,397 | \$1,583,565 |
| Construction | | \$281,856,128 | | | \$281,856,128 |
| Consultant: PM | \$487,017 | \$611,583 | \$599,747 | \$747,171 | \$2,445,518 |
| Consultant: PL | | | | | |
| Consultant: ER | \$1,976,915 | \$736,607 | | | \$2,713,522 |
| Consultant: RW | \$256,466 | | | | \$256,466 |
| Consultant: DS | \$30,318 | | | | \$30,318 |
| Consultant: CM | \$1,055,781 | \$4,306,187 | \$4,306,264 | \$7,389,550 | \$17,057,791 |
| CUW37001 Pipeline Repair & Readiness Improvements (Comp) | \$214,380 | | | | \$214,380 |
| Labor | \$214,380 | | | | \$214,380 |
| Other City Departments | | | | | |
| Other Direct Charges | | | | | |
| Construction | | | | | |
| Consultant: PM | | | | | |
| Consultant: PL | | | | | |
| Consultant: ER | | | | | |
| Consultant: RW | | | | | |
| Consultant: DS | | | | | |
| Consultant: CM | | | | | |
| CUW37401 Calaveras Dam Replacement | \$9,269,328 | \$330,465,539 | \$35,622,553 | \$26,616,121 | \$401,973,541 |
| Labor | \$2,799,412 | \$1,372,220 | \$1,152,505 | \$3,601,904 | \$8,926,041 |
| Other City Departments | \$1,083,777 | \$67,153 | \$135,452 | \$497,984 | \$1,674,366 |
| Other Direct Charges | \$1,666,280 | \$172,966 | \$99,858 | \$300,773 | \$2,239,876 |

| SFPUC San Francisco Public Utilities Commission | | Spending from Feb 1, 2010 to June 30, 2010 | FY 2010-2011 | FY 2011-2012 | July 1, 2012 through Dec 31, 2015 | Total |
|---|---|--|---------------|--------------|--------------------------------------|---------------|
| | Construction | | \$326,341,007 | \$26,829,206 | | \$353,170,213 |
| | Consultant: PM | \$341,530 | \$20,946 | \$2,982 | \$8,981 | \$374,439 |
| | Consultant: PL | | | | | |
| | Consultant: ER | \$1,391,478 | \$576,969 | | | \$1,968,447 |
| | Consultant: RW | | | | | |
| | Consultant: DS | \$2,008,851 | | | | \$2,008,851 |
| | Consultant: CM | | \$1,914,278 | \$7,402,551 | \$22,296,479 | \$31,613,308 |
| CUW38 | SYWTP Expansion & Treated Water Reservoir | \$1,733,611 | \$118,619,627 | \$5,707,328 | \$3,222,657 | \$129,283,223 |
| | Labor | \$760,189 | \$2,607,583 | \$2,865,796 | \$1,491,646 | \$7,525,194 |
| | Other City Departments | \$119,635 | \$210,124 | \$210,124 | \$106,743 | \$646,627 |
| | Other Direct Charges | \$535,290 | | | | \$535,290 |
| | Construction | | \$113,092,527 | | | \$113,092,527 |
| | Consultant: PM | | | | | |
| | Consultant: PL | | | | | |
| | Consultant: ER | \$65,024 | | | | \$65,024 |
| | Consultant: RW | \$26,055 | | | | \$26,055 |
| | Consultant: DS | \$227,418 | | | | \$227,418 |
| | Consultant: CM | | \$2,709,413 | \$2,831,408 | \$1,624,268 | \$7,165,088 |
| CUW38 | SYWTP Treated Water Reservoir (Combined with CUW38) | \$14,214 | | | | \$14,214 |
| | Labor | \$14,214 | | | | \$14,214 |
| | Other City Departments | | | | | |
| | Other Direct Charges | | | | | |
| | Construction | | | | | |
| | Consultant: PM | | | | | |
| | Consultant: PL | | | | | |
| | Consultant: ER | | | | | |
| | Consultant: RW | | | | | |
| | Consultant: DS | | | | | |
| | Consultant: CM | | | | | |
| CUW38 | San Antonio Pump Station Upgrade | \$2,089,100 | \$1,101,978 | \$174,765 | | \$3,365,843 |
| | Labor | \$908,445 | | | | \$908,445 |
| | Other City Departments | \$207,632 | | | | \$207,632 |
| | Other Direct Charges | \$13,929 | | | | \$13,929 |
| | Construction | \$357,838 | | | | \$357,838 |
| | Consultant: PM | \$61,695 | | | | \$61,695 |
| | Consultant: PL | \$78,192 | | | | \$78,192 |
| | Consultant: ER | | | | | |
| | Consultant: RW | | | | | |
| | Consultant: DS | \$108,319 | | | | \$108,319 |
| | Consultant: CM | \$353,052 | \$1,101,978 | \$174,765 | | \$1,629,795 |
| | Construction | \$27,468,817 | \$426,510,832 | \$77,953,723 | \$23,030,595 | \$352,953,967 |
| CUW35 | Seismic Upgrade of BDPL Nos. 3 & 4 | \$2,165,780 | \$3,082,748 | \$63,777,830 | \$6,496,368 | \$75,522,726 |
| | Labor | \$894,855 | \$782,358 | \$619,664 | \$1,838,390 | \$4,135,287 |
| | Other City Departments | \$72,044 | \$124,638 | \$28,480 | \$132,821 | \$357,982 |
| | Other Direct Charges | \$106,884 | \$83,398 | \$116,551 | \$1,228 | \$308,061 |
| | Construction | | | \$62,136,142 | | \$62,136,142 |
| | Consultant: PM | \$72,339 | | | | \$72,339 |
| | Consultant: PL | | | | | |
| | Consultant: ER | \$188,715 | \$272,665 | | | \$461,381 |
| | Consultant: RW | \$91,489 | \$44,440 | | | \$135,929 |
| | Consultant: DS | \$738,454 | \$1,775,248 | \$47,277 | | \$2,561,979 |
| | Consultant: CM | | | \$829,717 | \$4,523,928 | \$5,353,646 |
| CUW36 | SCADA System - Phase II | \$5,839,527 | \$6,125,377 | \$1,558,833 | | \$13,523,737 |
| | Labor | \$713,701 | \$1,317,957 | \$132,600 | | \$2,164,257 |
| | Other City Departments | \$397,842 | | | | \$397,842 |
| | Other Direct Charges | \$1,326,833 | | | | \$1,326,833 |
| | Construction | \$1,504,353 | \$2,256,379 | \$1,206,404 | | \$4,967,137 |
| | Consultant: PM | \$362,740 | | | | \$362,740 |
| | Consultant: PL | | | | | |
| | Consultant: ER | | | | | |
| | Consultant: RW | \$11,893 | | | | \$11,893 |
| | Consultant: DS | \$722,369 | \$1,192,641 | \$100,407 | | \$2,015,417 |
| | Consultant: CM | \$589,796 | \$1,358,400 | \$119,222 | | \$2,077,419 |
| CUW36 | BDPL Reliability Upgrade - Tunnel | \$8,176,309 | \$289,726,221 | \$6,029,759 | \$15,373,479 | \$289,304,768 |
| | Labor | \$2,877,101 | \$2,973,588 | \$2,876,647 | \$7,794,818 | \$16,522,151 |
| | Other City Departments | \$987,371 | \$96,659 | \$58,850 | \$311,105 | \$1,451,986 |
| | Other Direct Charges | | \$17,264 | \$17,265 | \$189,970 | \$224,488 |
| | Construction | | \$253,079,119 | | | \$253,079,119 |
| | Consultant: PM | \$1,198,816 | | | | \$1,198,816 |
| | Consultant: PL | | | | | |
| | Consultant: ER | \$522,858 | | | | \$522,858 |
| | Consultant: RW | \$548,192 | \$480,596 | | | \$1,028,789 |
| | Consultant: DS | \$501,752 | | | | \$501,752 |
| | Consultant: CM | \$1,539,218 | \$3,078,997 | \$3,078,997 | \$7,077,586 | \$14,774,799 |
| CUW36 | BDPL Reliability Upgrade - Pipeline | \$8,197,664 | \$154,187,825 | \$3,375,978 | \$187,118 | \$165,947,786 |
| | Labor | \$2,422,967 | \$1,636,501 | \$1,219,503 | \$174,874 | \$5,453,845 |
| | Other City Departments | \$501,536 | \$779,754 | \$253,581 | \$11,319 | \$1,546,189 |
| | Other Direct Charges | \$2,907,013 | \$98,080 | \$67,303 | \$925 | \$3,073,321 |
| | Construction | | \$148,751,341 | | | \$148,751,341 |
| | Consultant: PM | \$272,492 | | | | \$272,492 |
| | Consultant: PL | | | | | |
| | Consultant: ER | | | | | |
| | Consultant: RW | \$504,270 | \$769 | | | \$505,039 |
| | Consultant: DS | \$261,012 | | | | \$261,012 |
| | Consultant: CM | \$1,328,374 | \$2,920,580 | \$1,835,592 | | \$6,084,546 |

| SFPUC San Francisco Public Utilities Commission | Spending from Feb 1, 2010 to June 30, 2010 | FY 2010-2011 | FY 2011-2012 | July 1, 2012 through Dec 31, 2015 | Total |
|--|--|--------------|--------------|-----------------------------------|--------------|
| CUW380 BDPL Nos. 3 & 4 Crossovers | \$3,194,637 | \$3,389,522 | \$3,209,522 | \$973,629 | \$10,767,311 |
| Labor | \$797,617 | \$1,159,957 | \$1,159,957 | \$457,260 | \$3,574,790 |
| Other City Departments | \$127,445 | \$184,101 | \$184,101 | \$72,573 | \$568,221 |
| Other Direct Charges | \$931,752 | | | | \$931,752 |
| Construction | | | | | |
| Consultant: PM | | | | | |
| Consultant: PL | | | | | |
| Consultant: ER | | | | | |
| Consultant: RW | \$124,720 | | | | \$124,720 |
| Consultant: DS | | | | | |
| Consultant: CM | \$1,213,103 | \$2,045,465 | \$1,865,465 | \$443,796 | \$5,567,828 |
| CUW389 SFPUC/EBMUD Infiltrate | | | | | |
| Labor | | | | | |
| Other City Departments | | | | | |
| Other Direct Charges | | | | | |
| Construction | | | | | |
| Consultant: PM | | | | | |
| Consultant: PL | | | | | |
| Consultant: ER | | | | | |
| Consultant: RW | | | | | |
| Consultant: DS | | | | | |
| Consultant: CM | | | | | |
| CUW393 BDPL No. 4 Condition Assessment PCCP Sections | \$93,840 | | | | \$93,840 |
| Labor | \$75,208 | | | | \$75,208 |
| Other City Departments | | | | | |
| Other Direct Charges | | | | | |
| Construction | | | | | |
| Consultant: PM | \$18,632 | | | | \$18,632 |
| Consultant: PL | | | | | |
| Consultant: ER | | | | | |
| Consultant: RW | | | | | |
| Consultant: DS | | | | | |
| Consultant: CM | | | | | |
| CUW349 Lower Crystal Springs Dam Region | \$26,270,453 | \$52,890,075 | \$21,451,787 | \$32,451,936 | \$64,267,204 |
| CUW3401 Lower Crystal Springs Dam Improvements | \$2,321,850 | \$23,346,441 | \$602,362 | | \$26,270,453 |
| Labor | \$1,167,160 | \$244,983 | \$288,484 | | \$1,700,627 |
| Other City Departments | \$173,728 | \$13,990 | \$17,772 | | \$205,491 |
| Other Direct Charges | \$250,592 | \$1,761 | | | \$252,353 |
| Construction | | \$22,748,803 | | | \$22,748,803 |
| Consultant: PM | \$3,561 | \$191 | | | \$3,751 |
| Consultant: PL | | | | | |
| Consultant: ER | \$609,395 | \$69,796 | | | \$679,193 |
| Consultant: RW | | | | | |
| Consultant: DS | \$117,213 | \$2,768 | | | \$119,981 |
| Consultant: CM | | \$264,149 | \$286,105 | | \$560,255 |
| CUW358 New Crystal Springs Bypass Tunnel | \$2,273,511 | \$4,451,379 | \$1,283,106 | | \$8,007,996 |
| Labor | \$251,087 | \$408,490 | \$274,033 | | \$931,580 |
| Other City Departments | \$225,803 | \$451,807 | \$117,839 | | \$795,349 |
| Other Direct Charges | | | | | |
| Construction | | | | | |
| Consultant: PM | \$43,854 | \$87,708 | \$21,752 | | \$153,314 |
| Consultant: PL | | | | | |
| Consultant: ER | | | | | |
| Consultant: RW | | | | | |
| Consultant: DS | | | | | |
| Consultant: CM | \$1,762,787 | \$3,505,574 | \$869,382 | | \$6,127,743 |
| CUW357 Adjt Leak Repair - Crystal Springs/Calaveras [Completed] | \$5,562 | | | | \$5,562 |
| Labor | \$5,562 | | | | \$5,562 |
| Other City Departments | | | | | |
| Other Direct Charges | | | | | |
| Construction | | | | | |
| Consultant: PM | | | | | |
| Consultant: PL | | | | | |
| Consultant: ER | | | | | |
| Consultant: RW | | | | | |
| Consultant: DS | | | | | |
| Consultant: CM | | | | | |
| CUW361 Pulgas Balancing - Discharge Channel Modifications | \$1,117,772 | | | | \$1,117,772 |
| Labor | \$366,499 | | | | \$366,499 |
| Other City Departments | \$174,732 | | | | \$174,732 |
| Other Direct Charges | \$82,571 | | | | \$82,571 |
| Construction | | | | | |
| Consultant: PM | \$177,361 | | | | \$177,361 |
| Consultant: PL | | | | | |
| Consultant: ER | \$60,759 | | | | \$60,759 |
| Consultant: RW | | | | | |
| Consultant: DS | | | | | |
| Consultant: CM | \$255,850 | | | | \$255,850 |
| CUW361 Pulgas Balancing - Structural Rehabilitation and Roof Re | \$1,201,562 | \$1,624,981 | \$374,895 | | \$3,201,438 |
| Labor | \$443,689 | \$792,978 | \$181,750 | | \$1,418,417 |
| Other City Departments | \$23,166 | \$46,941 | \$7,323 | | \$77,430 |
| Other Direct Charges | \$306,935 | \$329,520 | \$51,405 | | \$687,860 |
| Construction | | | | | |
| Consultant: PM | \$7,031 | \$14,062 | \$24,047 | | \$45,140 |
| Consultant: PL | | | | | |

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|--|--|---------------|--------------|-----------------------------------|---------------|
| Consultant: ER | | | | | |
| Consultant: RW | | | | | |
| Consultant: DS | | | | | |
| Consultant: CM | \$420,741 | \$441,480 | \$110,370 | | \$972,591 |
| CUW36195 Pulgas Balancing - Modifications of the Existing De | \$394,847 | \$2,474,530 | \$334,704 | | \$3,204,081 |
| Labor | \$256,495 | \$391,763 | \$201,430 | | \$849,688 |
| Other City Departments | \$96,297 | \$33,475 | \$13,599 | | \$143,371 |
| Other Direct Charges | | \$24,165 | \$10,678 | | \$34,843 |
| Construction | | \$1,774,329 | | | \$1,774,329 |
| Consultant: PM | \$15,154 | | | | \$15,154 |
| Consultant: PL | | | | | |
| Consultant: ER | \$21,199 | | | | \$21,199 |
| Consultant: RW | | | | | |
| Consultant: DS | \$5,702 | | | | \$5,702 |
| Consultant: CM | | \$250,798 | \$108,997 | | \$359,795 |
| CUW365 Cross Connection Controls | | | | | |
| Labor | | | | | |
| Other City Departments | | | | | |
| Other Direct Charges | | | | | |
| Construction | | | | | |
| Consultant: PM | | | | | |
| Consultant: PL | | | | | |
| Consultant: ER | | | | | |
| Consultant: RW | | | | | |
| Consultant: DS | | | | | |
| Consultant: CM | \$822,179 | | | | \$822,179 |
| CUW366 HTWTP Short-Term Improvements - Coagulation & Flocc | \$681,910 | | | | \$681,910 |
| Labor | | | | | |
| Other City Departments | | | | | |
| Other Direct Charges | | | | | |
| Construction | | | | | |
| Consultant: PM | | | | | |
| Consultant: PL | | | | | |
| Consultant: ER | | | | | |
| Consultant: RW | | | | | |
| Consultant: DS | | | | | |
| Consultant: CM | \$140,269 | | | | \$140,269 |
| CUW367 HTWTP Long-Term Improvements | \$5,368,905 | \$315,369,329 | \$8,228,756 | \$12,328,141 | \$341,295,131 |
| Labor | \$1,549,927 | \$4,394,398 | \$8,477,402 | \$9,829,889 | \$22,251,614 |
| Other City Departments | \$375,577 | \$616,289 | \$1,351,679 | \$1,900,339 | \$4,243,883 |
| Other Direct Charges | | \$164,173 | | | \$164,173 |
| Construction | | \$307,143,586 | | | \$307,143,586 |
| Consultant: PM | \$308,722 | \$584,019 | \$399,675 | \$597,914 | \$1,890,329 |
| Consultant: PL | | | | | |
| Consultant: ER | \$234,641 | \$1,268,847 | | | \$1,503,489 |
| Consultant: RW | | | | | |
| Consultant: DS | \$2,900,038 | \$1,198,019 | | | \$4,098,058 |
| Consultant: CM | | | | | |
| CUW36702 Peninsula Pipelines Seismic Upgrade | \$3,934,000 | \$411,710 | \$411,745 | \$10,242,545 | \$15,000,000 |
| Labor | \$27,143 | \$235,681 | \$235,697 | \$116,529 | \$615,030 |
| Other City Departments | \$489,840 | \$17,100 | \$17,100 | \$3,556 | \$527,596 |
| Other Direct Charges | | | | | |
| Construction | | | | \$8,900,000 | \$8,900,000 |
| Consultant: PM | \$384,480 | | | | \$384,480 |
| Consultant: PL | \$780,819 | | | | \$780,819 |
| Consultant: ER | \$839,666 | \$148,688 | \$148,688 | \$30,927 | \$1,167,989 |
| Consultant: RW | \$6,345 | \$10,261 | \$10,261 | \$2,134 | \$29,001 |
| Consultant: DS | \$996,019 | | | | \$996,019 |
| Consultant: CM | \$399,687 | | | \$1,189,399 | \$1,589,086 |
| CUW369 Capichino Valve Lot Improvements [Completed] | | | | | |
| Labor | | | | | |
| Other City Departments | | | | | |
| Other Direct Charges | | | | | |
| Construction | | | | | |
| Consultant: PM | | | | | |
| Consultant: PL | | | | | |
| Consultant: ER | | | | | |
| Consultant: RW | | | | | |
| Consultant: DS | | | | | |
| Consultant: CM | | | | | |
| CUW371 Crystal Springs/San Andreas Transmission Upgrade | \$3,414,355 | \$181,816,606 | \$7,604,149 | \$9,258,193 | \$172,093,304 |
| Labor | \$1,648,086 | \$2,014,398 | \$2,065,947 | \$2,831,648 | \$8,360,069 |
| Other City Departments | \$599,858 | \$350,279 | \$472,975 | \$591,109 | \$2,014,221 |
| Other Direct Charges | \$200,436 | \$19,763 | \$26,852 | \$35,229 | \$282,279 |
| Construction | | \$145,154,212 | | | \$145,154,212 |
| Consultant: PM | \$85,750 | \$3,864 | \$5,250 | \$6,908 | \$101,773 |
| Consultant: PL | | | | | |
| Consultant: ER | \$505,503 | | | | \$505,503 |
| Consultant: RW | \$147,843 | | | | \$147,843 |
| Consultant: DS | \$226,900 | | | | \$226,900 |
| Consultant: CM | | \$4,274,091 | \$5,033,125 | \$5,993,298 | \$15,300,514 |
| CUW3701 Crystal Springs Pipeline No. 2 Replacement | \$1,310,520 | \$58,950,172 | \$923,918 | \$623,056 | \$61,807,667 |
| Labor | \$988,112 | \$133,998 | \$231,892 | \$174,067 | \$1,508,069 |
| Other City Departments | \$62,022 | \$34,928 | \$160,860 | \$114,877 | \$372,687 |
| Other Direct Charges | | \$4,754 | \$2,222 | | \$6,976 |

| SFPUC San Francisco Public Utilities Commission | | Spending from Feb 1, 2010 to June 30, 2010 | FY 2010-2011 | FY 2011-2012 | July 1, 2012 through Dec 31, 2015 | Total |
|---|--|--|--------------|--------------|--------------------------------------|--------------|
| Construction | | | \$58,629,451 | | | \$58,629,451 |
| | Consultant: PM | \$2,664 | \$9,586 | \$10,367 | \$7,464 | \$30,060 |
| | Consultant: PL | | | | | |
| | Consultant: ER | \$152,152 | \$47,317 | | | \$199,469 |
| | Consultant: RW | \$36,553 | \$1,574 | | | \$38,127 |
| | Consultant: DS | \$89,017 | \$3,538 | | | \$92,555 |
| | Consultant: CM | | \$85,047 | \$518,578 | \$326,649 | \$930,274 |
| | Consultant: MS | | | | | |
| CUW378 | San Andreas Pipeline No. 3 Installation | \$1,395,195 | \$2,795,278 | \$1,685,570 | | \$5,855,042 |
| | Labor | \$584,298 | \$1,191,482 | \$761,029 | | \$2,546,809 |
| | Other City Departments | \$218,812 | \$437,626 | \$246,821 | | \$903,259 |
| | Other Direct Charges | | | | | |
| | Construction | | | | | |
| | Consultant: PM | \$19,158 | \$38,317 | \$21,610 | | \$79,085 |
| | Consultant: PL | | | | | |
| | Consultant: ER | | | | | |
| | Consultant: RW | | | | | |
| | Consultant: DS | | | | | |
| | Consultant: CM | \$563,927 | \$1,127,853 | \$636,109 | | \$2,327,889 |
| CUW391 | Baden arid San Pedro Valve Lots Improvements | \$2,547,408 | \$1,419,749 | \$22,582 | | \$3,989,739 |
| | Labor | \$265,374 | \$369,539 | \$19,927 | | \$654,840 |
| | Other City Departments | \$207,190 | \$274,663 | \$2,654 | | \$484,508 |
| | Other Direct Charges | \$1,901,388 | | | | \$1,901,388 |
| | Construction | | | | | |
| | Consultant: PM | \$16,621 | \$21,411 | | | \$37,932 |
| | Consultant: PL | | | | | |
| | Consultant: ER | | | | | |
| | Consultant: RW | | | | | |
| | Consultant: DS | | | | | |
| | Consultant: CM | \$156,935 | \$754,136 | | | \$911,071 |
| San Francisco Regional Region | | \$7,626,660 | \$8,639,014 | \$4,297,109 | \$33,490,259 | \$48,267,052 |
| CUW30103 | Regional Groundwater Storage and Recovery | \$5,309,129 | \$3,022,675 | \$1,072,616 | \$33,490,259 | \$42,894,679 |
| | Labor | \$1,238,756 | \$1,455,796 | \$336,860 | \$1,997,584 | \$5,018,977 |
| | Other City Departments | \$182,735 | \$640,430 | \$369,116 | \$225,478 | \$1,417,759 |
| | Other Direct Charges | \$599,763 | | | | \$599,763 |
| | Construction | | | | \$29,531,000 | \$29,531,000 |
| | Consultant: PM | \$128,338 | \$101,285 | \$69,379 | \$112,699 | \$411,701 |
| | Consultant: PL | | | | | |
| | Consultant: ER | \$2,518,253 | \$248,986 | \$174,070 | | \$2,941,289 |
| | Consultant: RW | \$209,307 | \$121,843 | \$123,191 | \$5,864 | \$460,205 |
| | Consultant: DS | \$420,104 | \$421,934 | | | \$842,038 |
| | Consultant: CM | \$12,873 | \$32,420 | | \$1,627,654 | \$1,672,947 |
| CUW358 | Sunset Reservoir - North Basin | \$143,739 | | | | \$143,739 |
| | Labor | \$143,739 | | | | \$143,739 |
| | Other City Departments | | | | | |
| | Other Direct Charges | | | | | |
| | Construction | | | | | |
| | Consultant: PM | | | | | |
| | Consultant: PL | | | | | |
| | Consultant: ER | | | | | |
| | Consultant: RW | | | | | |
| | Consultant: DS | | | | | |
| | Consultant: CM | | | | | |
| CUW372 | University Mound Reservoir - North Basin | \$2,173,816 | \$2,836,339 | \$218,481 | | \$5,228,637 |
| | Labor | \$1,582,873 | \$1,678,093 | \$218,481 | | \$3,479,447 |
| | Other City Departments | \$143,614 | \$281,483 | | | \$425,097 |
| | Other Direct Charges | | | | | |
| | Construction | | | | | |
| | Consultant: PM | \$16,484 | \$32,308 | | | \$48,792 |
| | Consultant: PL | | | | | |
| | Consultant: ER | | | | | |
| | Consultant: RW | | | | | |
| | Consultant: DS | | | | | |
| | Consultant: CM | \$430,845 | \$844,456 | | | \$1,275,301 |
| San Francisco Regional Region | | \$10,208,997 | \$5,349,272 | \$2,869,643 | \$35,901,237 | \$48,267,052 |
| CUW386 | Programmatic EIR (Completed) | \$51,954 | \$169,269 | | | \$220,223 |
| | Labor | \$9,153 | \$82,859 | | | \$92,012 |
| | Other City Departments | \$1,874 | \$20,624 | | | \$22,498 |
| | Other Direct Charges | | | | | |
| | Construction | | | | | |
| | Consultant: PM | | \$6,250 | | | \$6,250 |
| | Consultant: PL | | | | | |
| | Consultant: ER | \$40,927 | \$9,331 | | | \$50,258 |
| | Consultant: RW | | \$5,534 | | | \$5,534 |
| | Consultant: DS | | \$7,053 | | | \$7,053 |
| | Consultant: CM | | \$36,617 | | | \$36,617 |
| CUW3802 | Habitat Reserve Program | \$1,094,158 | \$40,974,666 | \$3,335 | | \$42,072,159 |
| | Labor | \$140,170 | \$94,556 | \$1,673 | | \$236,399 |
| | Other City Departments | \$31,568 | \$122,620 | \$1,662 | | \$155,850 |
| | Other Direct Charges | \$12,413 | \$3,913,693 | | | \$3,926,106 |
| | Construction | | \$28,377,928 | | | \$28,377,928 |
| | Consultant: PM | | \$8,000,000 | | | \$8,000,000 |
| | Consultant: PL | | | | | |
| | Consultant: ER | \$197,258 | \$26,203 | | | \$193,461 |
| | Consultant: RW | \$89,352 | \$19,414 | | | \$108,766 |

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|---|---|--|---------------------|----------------------|--------------------------------------|----------------------|
| | Consultant: DS | \$653,397 | | | | \$653,397 |
| | Consultant: CM | | \$420,251 | | | \$420,251 |
| CUW392 | Program Management Project | \$5,165,236 | \$10,228,333 | \$10,228,333 | \$34,897,331 | \$60,519,233 |
| | Labor | \$734,030 | \$1,467,632 | \$1,467,632 | \$4,900,687 | \$8,569,982 |
| | Other City Departments | \$28,986 | \$57,971 | \$57,971 | \$198,496 | \$343,424 |
| | Other Direct Charges | \$18,416 | \$36,831 | \$36,831 | \$128,112 | \$218,189 |
| | Construction | | | | | |
| | Consultant: PM | | | | | |
| | Consultant: PL | \$324,175 | \$547,315 | \$547,315 | \$1,874,008 | \$3,292,814 |
| | Consultant: ER | | | | | |
| | Consultant: RW | | | | | |
| | Consultant: DS | | | | | |
| | Consultant: CM | \$1,849,886 | \$3,299,772 | \$3,299,772 | \$11,298,418 | \$19,547,847 |
| | Consultant: CN | | | | | |
| | Consultant: PC | \$589,590 | \$1,138,505 | \$1,138,505 | \$3,898,241 | \$6,744,841 |
| | Consultant: LA | \$1,036,437 | \$2,072,874 | \$2,072,874 | \$7,097,518 | \$12,279,704 |
| CUW39401 | Watershed Environmental Improvement Program | \$803,716 | \$1,607,433 | \$1,607,433 | \$5,503,850 | \$9,522,432 |
| | Labor | \$3,898,049 | \$2,090,004 | \$12,837,975 | \$1,003,906 | \$19,629,935 |
| | Other City Departments | \$463,456 | \$40,422 | \$4,007 | \$8,485 | \$516,370 |
| | Other Direct Charges | \$3,434,593 | \$2,049,582 | \$633,968 | \$995,421 | \$7,113,565 |
| | Construction | | | \$12,000,000 | | \$12,000,000 |
| | Consultant: PM | | | | | |
| | Consultant: PL | | | | | |
| | Consultant: ER | | | | | |
| | Consultant: RW | | | | | |
| | Consultant: DS | | | | | |
| | Consultant: CM | | | | | |
| LW | Local Water Program | \$22,024,149 | \$44,772,699 | \$182,846,805 | \$49,770,275 | \$299,412,929 |
| WRS | Reservoir Rehabilitation | \$2,080,288 | \$8,138,725 | \$50,810,419 | \$1,243,534 | \$62,273,966 |
| CUW307 | Summit Reservoir Rehabilitation | | | | | |
| | Labor | | | | | |
| | Other City Departments | | | | | |
| | Other Direct Charges | | | | | |
| | Construction | | | | | |
| | Consultant: PM | | | | | |
| | Consultant: PL | | | | | |
| | Consultant: ER | | | | | |
| | Consultant: RW | | | | | |
| | Consultant: DS | | | | | |
| | Consultant: CM | | | | | |
| CUW319 | Hunters Point Reservoir Rehab & Seismic Upgrade | \$238,514 | \$7,363,496 | \$1,093,247 | | \$8,695,258 |
| | Labor | \$165,487 | \$1,778,411 | \$890,475 | | \$2,834,373 |
| | Other City Departments | \$64,101 | \$85,085 | \$112,772 | | \$261,958 |
| | Other Direct Charges | | | | | |
| | Construction | | \$5,500,000 | | | \$5,500,000 |
| | Consultant: PM | \$8,927 | | | | \$8,927 |
| | Consultant: PL | | | | | |
| | Consultant: ER | | | | | |
| | Consultant: RW | | | | | |
| | Consultant: DS | | | | | |
| | Consultant: CM | | | | | |
| CUW334 | Stanford Heights Reservoir Rehabilitation | | | | | |
| | Labor | | | | | |
| | Other City Departments | | | | | |
| | Other Direct Charges | | | | | |
| | Construction | | | | | |
| | Consultant: PM | | | | | |
| | Consultant: PL | | | | | |
| | Consultant: ER | | | | | |
| | Consultant: RW | | | | | |
| | Consultant: DS | | | | | |
| | Consultant: CM | | | | | |
| CUW335 | Potrero Heights Reservoir Rehabilitation (Completed) | | | | | |
| | Labor | | | | | |
| | Other City Departments | | | | | |
| | Other Direct Charges | | | | | |
| | Construction | | | | | |
| | Consultant: PM | | | | | |
| | Consultant: PL | | | | | |
| | Consultant: ER | | | | | |
| | Consultant: RW | | | | | |
| | Consultant: DS | | | | | |
| | Consultant: CM | | | | | |
| CUW337 | Potrero Reservoir Rehab & Seismic Upgrade | \$1,821,774 | \$795,229 | \$49,807,171 | \$1,144,534 | \$53,568,708 |
| | Labor | \$1,508,925 | \$176,554 | \$419,551 | \$853,115 | \$2,958,145 |
| | Other City Departments | \$107,529 | \$58,967 | \$29,638 | \$68,549 | \$262,680 |
| | Other Direct Charges | | | | | |
| | Construction | | | \$49,257,842 | | \$49,257,842 |
| | Consultant: PM | \$125,436 | \$8,965 | \$14,308 | \$32,125 | \$178,831 |
| | Consultant: PL | | | | | |
| | Consultant: ER | | | | | |
| | Consultant: RW | | | | | |
| | Consultant: DS | \$79,884 | \$552,744 | | | \$632,628 |

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|--|--|--------------|--------------|--------------------------------------|--------------|
| Consultant: CM | | | \$85,836 | \$192,745 | \$278,581 |
| Crowder Pump Station Upgrades | \$9,095,817 | \$14,009,433 | \$3,438,345 | \$197,395 | \$23,740,990 |
| CUW308 Crowder Amazon Pump Station Upgrades (Completed) | | | | | |
| Labor | | | | | |
| Other City Departments | | | | | |
| Other Direct Charges | | | | | |
| Construction | | | | | |
| Consultant: PM | | | | | |
| Consultant: PL | | | | | |
| Consultant: ER | | | | | |
| Consultant: RW | | | | | |
| Consultant: DS | | | | | |
| Consultant: CM | | | | | |
| CUW309 Lake Merced Pump Station Essential Upgrades | \$2,545,523 | \$4,535,592 | \$1,290,667 | | \$8,371,782 |
| Labor | \$664,116 | \$1,312,633 | \$773,212 | | \$2,749,961 |
| Other City Departments | \$88,822 | \$177,645 | \$458,339 | | \$724,806 |
| Other Direct Charges | | | | | |
| Construction | \$1,704,615 | \$2,869,373 | | | \$4,573,988 |
| Consultant: PM | | | | | |
| Consultant: PL | | | | | |
| Consultant: ER | | | | | |
| Consultant: RW | | | | | |
| Consultant: DS | | | | | |
| Consultant: CM | \$87,970 | \$175,941 | \$59,116 | | \$323,027 |
| CUW314 La Grande Tank Seismic Upgrade (Completed) | | | | | |
| Labor | | | | | |
| Other City Departments | | | | | |
| Other Direct Charges | | | | | |
| Construction | | | | | |
| Consultant: PM | | | | | |
| Consultant: PL | | | | | |
| Consultant: ER | | | | | |
| Consultant: RW | | | | | |
| Consultant: DS | | | | | |
| Consultant: CM | | | | | |
| CUW318 Forest Hill Tank Rehab & Seismic Upgrade (Completed) | | | | | |
| Labor | | | | | |
| Other City Departments | | | | | |
| Other Direct Charges | | | | | |
| Construction | | | | | |
| Consultant: PM | | | | | |
| Consultant: PL | | | | | |
| Consultant: ER | | | | | |
| Consultant: RW | | | | | |
| Consultant: DS | | | | | |
| Consultant: CM | | | | | |
| CUW320 Forest Hill Pump Station Upgrades | \$543,967 | \$5,043,326 | \$668,046 | \$197,395 | \$6,652,734 |
| Labor | \$362,895 | \$674,139 | \$759,821 | \$144,232 | \$1,941,087 |
| Other City Departments | \$146,678 | \$59,187 | \$108,225 | \$53,163 | \$367,253 |
| Other Direct Charges | | | | | |
| Construction | | \$4,310,000 | | | \$4,310,000 |
| Consultant: PM | \$34,394 | | | | \$34,394 |
| Consultant: PL | | | | | |
| Consultant: ER | | | | | |
| Consultant: RW | | | | | |
| Consultant: DS | | | | | |
| Consultant: CM | | | | | |
| CUW321 Forest Knolls Pump Station Upgrades | \$243,191 | | | | \$243,191 |
| Labor | \$243,191 | | | | \$243,191 |
| Other City Departments | | | | | |
| Other Direct Charges | | | | | |
| Construction | | | | | |
| Consultant: PM | | | | | |
| Consultant: PL | | | | | |
| Consultant: ER | | | | | |
| Consultant: RW | | | | | |
| Consultant: DS | | | | | |
| Consultant: CM | | | | | |
| CUW322 Lincoln Park Pump Station Upgrades (Completed) | | | | | |
| Labor | | | | | |
| Other City Departments | | | | | |
| Other Direct Charges | | | | | |
| Construction | | | | | |
| Consultant: PM | | | | | |
| Consultant: PL | | | | | |
| Consultant: ER | | | | | |
| Consultant: RW | | | | | |
| Consultant: DS | | | | | |
| Consultant: CM | | | | | |
| CUW323 Alemany Pump Station Upgrades (McLaren Park) | \$973,481 | \$150,416 | | | \$1,123,897 |
| Labor | \$46,333 | \$39,144 | | | \$85,477 |
| Other City Departments | \$246,071 | \$111,272 | | | \$357,343 |
| Other Direct Charges | | | | | |
| Construction | \$558,769 | | | | \$558,769 |
| Consultant: PM | | | | | |

| SFPUC San Francisco Public Utilities Commission | Spending from Feb 1, 2010 to June 30, 2010 | FY 2010-2011 | FY 2011-2012 | July 1, 2012 through Dec 31, 2015 | Total |
|---|--|--------------|--------------|--------------------------------------|-----------|
| Consultant: PL | | | | | |
| Consultant: ER | | | | | |
| Consultant: RW | | | | | |
| Consultant: DS | | | | | |
| Consultant: CM | \$122,308 | | | | \$122,308 |
| CUW324 Mount Davidson Pump Station Upgrades | \$236,965 | \$57,180 | | | \$294,145 |
| Labor | \$168,292 | \$57,180 | | | \$225,472 |
| Other City Departments | \$59,481 | | | | \$59,481 |
| Other Direct Charges | | | | | |
| Construction | | | | | |
| Consultant: PM | | | | | |
| Consultant: PL | | | | | |
| Consultant: ER | | | | | |
| Consultant: RW | | | | | |
| Consultant: DS | | | | | |
| Consultant: CM | \$9,192 | | | | \$9,192 |
| CUW325 Palo Alto Pump Station Upgrades | \$59,400 | | | | \$59,400 |
| Labor | \$59,400 | | | | \$59,400 |
| Other City Departments | | | | | |
| Other Direct Charges | | | | | |
| Construction | | | | | |
| Consultant: PM | | | | | |
| Consultant: PL | | | | | |
| Consultant: ER | | | | | |
| Consultant: RW | | | | | |
| Consultant: DS | | | | | |
| Consultant: CM | | | | | |
| CUW326 Sky View / Aqua Vista Pump Station Upgrade (Completed) | | | | | |
| Labor | | | | | |
| Other City Departments | | | | | |
| Other Direct Charges | | | | | |
| Construction | | | | | |
| Consultant: PM | | | | | |
| Consultant: PL | | | | | |
| Consultant: ER | | | | | |
| Consultant: RW | | | | | |
| Consultant: DS | | | | | |
| Consultant: CM | | | | | |
| CUW327 Summit Pump Station Upgrades (Completed) | | | | | |
| Labor | | | | | |
| Other City Departments | | | | | |
| Other Direct Charges | | | | | |
| Construction | | | | | |
| Consultant: PM | | | | | |
| Consultant: PL | | | | | |
| Consultant: ER | | | | | |
| Consultant: RW | | | | | |
| Consultant: DS | | | | | |
| Consultant: CM | | | | | |
| CUW328 McLaren #1 Tank Rehab & Seismic Upgrade (Completed) | | | | | |
| Labor | | | | | |
| Other City Departments | | | | | |
| Other Direct Charges | | | | | |
| Construction | | | | | |
| Consultant: PM | | | | | |
| Consultant: PL | | | | | |
| Consultant: ER | | | | | |
| Consultant: RW | | | | | |
| Consultant: DS | | | | | |
| Consultant: CM | | | | | |
| CUW329 Potrero Heights Tank Seismic Upgrade (Completed) | | | | | |
| Labor | | | | | |
| Other City Departments | | | | | |
| Other Direct Charges | | | | | |
| Construction | | | | | |
| Consultant: PM | | | | | |
| Consultant: PL | | | | | |
| Consultant: ER | | | | | |
| Consultant: RW | | | | | |
| Consultant: DS | | | | | |
| Consultant: CM | | | | | |
| CUW330 Forest Knolls Tank Seismic Upgrade | \$241,915 | | | | \$241,915 |
| Labor | \$241,915 | | | | \$241,915 |
| Other City Departments | | | | | |
| Other Direct Charges | | | | | |
| Construction | | | | | |
| Consultant: PM | | | | | |
| Consultant: PL | | | | | |
| Consultant: ER | | | | | |
| Consultant: RW | | | | | |
| Consultant: DS | | | | | |
| Consultant: CM | | | | | |
| CUW331 Lincoln Park Tank Seismic Upgrade (Completed) | | | | | |
| Labor | | | | | |
| Other City Departments | | | | | |

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|---|--|--------------------|--------------------|-----------------------------------|--------------------|
| Other Direct Charges | | | | | |
| Construction | | | | | |
| Consultant: PM | | | | | |
| Consultant: PL | | | | | |
| Consultant: ER | | | | | |
| Consultant: RW | | | | | |
| Consultant: DS | | | | | |
| Consultant: CM | | | | | |
| CUW332 McLaren #2 Tank Rehab & Seismic Upgrade (Completed) | | | | | |
| Labor | | | | | |
| Other City Departments | | | | | |
| Other Direct Charges | | | | | |
| Construction | | | | | |
| Consultant: PM | | | | | |
| Consultant: PL | | | | | |
| Consultant: ER | | | | | |
| Consultant: RW | | | | | |
| Consultant: DS | | | | | |
| Consultant: CM | | | | | |
| CUW333 Mount Davidson Tank Seismic Upgrade | \$202,922 | | | | \$202,922 |
| Labor | \$202,922 | | | | \$202,922 |
| Other City Departments | | | | | |
| Other Direct Charges | | | | | |
| Construction | | | | | |
| Consultant: PM | | | | | |
| Consultant: PL | | | | | |
| Consultant: ER | | | | | |
| Consultant: RW | | | | | |
| Consultant: DS | | | | | |
| Consultant: CM | | | | | |
| CUW338 La Grande Pump Station Upgrades | \$420,262 | \$2,682,647 | \$1,267,037 | | \$4,369,947 |
| Labor | \$134,628 | \$390,284 | \$145,109 | | \$670,022 |
| Other City Departments | \$40,142 | \$176,060 | \$80,393 | | \$296,595 |
| Other Direct Charges | | | | | |
| Construction | \$172,065 | \$1,483,315 | \$801,000 | | \$2,456,379 |
| Consultant: PM | | | | | |
| Consultant: PL | | | | | |
| Consultant: ER | | | | | |
| Consultant: RW | | | | | |
| Consultant: DS | | | | | |
| Consultant: CM | \$73,427 | \$632,989 | \$240,536 | | \$946,951 |
| CUW339 Potrero Heights Pump Station Upgrades (Completed) | | | | | |
| Labor | | | | | |
| Other City Departments | | | | | |
| Other Direct Charges | | | | | |
| Construction | | | | | |
| Consultant: PM | | | | | |
| Consultant: PL | | | | | |
| Consultant: ER | | | | | |
| Consultant: RW | | | | | |
| Consultant: DS | | | | | |
| Consultant: CM | | | | | |
| CUW340 Vista Francisco Pump Station Upgrades | \$627,390 | \$1,539,272 | \$12,595 | | \$2,179,256 |
| Labor | \$121,982 | \$183,965 | \$12,595 | | \$318,542 |
| Other City Departments | \$66,136 | \$99,170 | | | \$165,306 |
| Other Direct Charges | | | | | |
| Construction | \$275,504 | \$644,718 | | | \$1,120,222 |
| Consultant: PM | | | | | |
| Consultant: PL | | | | | |
| Consultant: ER | | | | | |
| Consultant: RW | | | | | |
| Consultant: DS | | | | | |
| Consultant: CM | \$163,768 | \$411,418 | | | \$575,186 |
| CUW341 Potrero Valves | \$369,343 | \$339,764 | | | \$709,107 |
| CUW304 North University Mound System Upgrade | \$967,213 | \$339,764 | | | \$1,306,977 |
| Labor | \$120,228 | \$153,810 | | | \$274,038 |
| Other City Departments | | | | | |
| Other Direct Charges | | | | | |
| Construction | \$701,562 | | | | \$701,562 |
| Consultant: PM | | | | | |
| Consultant: PL | | | | | |
| Consultant: ER | | | | | |
| Consultant: RW | | | | | |
| Consultant: DS | | | | | |
| Consultant: CM | \$145,423 | \$185,954 | | | \$331,377 |
| CUW308C Key Motorized and Other Critical Valves (Completed) | | | | | |
| Labor | | | | | |
| Other City Departments | | | | | |
| Other Direct Charges | | | | | |
| Construction | | | | | |
| Consultant: PM | | | | | |
| Consultant: PL | | | | | |
| Consultant: ER | | | | | |
| Consultant: RW | | | | | |
| Consultant: DS | | | | | |

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|---|--|--------------|--------------|-----------------------------------|---------------|
| CUW311 Sunset Circulation Improvements (Completed) | | | | | |
| Consultant: CM | | | | | |
| Labor | | | | | |
| Other City Departments | | | | | |
| Other Direct Charges | | | | | |
| Construction | | | | | |
| Consultant: PM | | | | | |
| Consultant: PL | | | | | |
| Consultant: ER | | | | | |
| Consultant: RW | | | | | |
| Consultant: DS | | | | | |
| Consultant: CM | | | | | |
| CUW312 Lincoln Way Transmission Line | | | | | |
| Labor | | | | | |
| Other City Departments | | | | | |
| Other Direct Charges | | | | | |
| Construction | | | | | |
| Consultant: PM | | | | | |
| Consultant: PL | | | | | |
| Consultant: ER | | | | | |
| Consultant: RW | | | | | |
| Consultant: DS | | | | | |
| Consultant: CM | | | | | |
| CUW313 Noy Valley Transmission Main, Phase 2 | \$1,648,330 | | | | \$1,648,330 |
| Labor | \$415,157 | | | | \$415,157 |
| Other City Departments | \$259,022 | | | | \$259,022 |
| Other Direct Charges | \$4,451 | | | | \$4,451 |
| Construction | \$840,672 | | | | \$840,672 |
| Consultant: PM | | | | | |
| Consultant: PL | | | | | |
| Consultant: ER | | | | | |
| Consultant: RW | | | | | |
| Consultant: DS | | | | | |
| Consultant: CM | | | | | |
| CUW316 East / West Transmission Main | \$129,028 | | | | \$129,028 |
| Labor | \$1,053,771 | | | | \$1,053,771 |
| Other City Departments | \$1,053,771 | | | | \$1,053,771 |
| Other Direct Charges | | | | | |
| Construction | | | | | |
| Consultant: PM | | | | | |
| Consultant: PL | | | | | |
| Consultant: ER | | | | | |
| Consultant: RW | | | | | |
| Consultant: DS | | | | | |
| Consultant: CM | | | | | |
| CUW316 Fulton @ Sixth Ave - 30" Main Replacement (Completed) | | | | | |
| Labor | | | | | |
| Other City Departments | | | | | |
| Other Direct Charges | | | | | |
| Construction | | | | | |
| Consultant: PM | | | | | |
| Consultant: PL | | | | | |
| Consultant: ER | | | | | |
| Consultant: RW | | | | | |
| Consultant: DS | | | | | |
| Consultant: CM | | | | | |
| CUW303 Vehicle Service Facility Equipment Safety Upgrade (Com | \$486,603 | | | | \$486,603 |
| Labor | \$486,603 | | | | \$486,603 |
| Other City Departments | | | | | |
| Other Direct Charges | | | | | |
| Construction | | | | | |
| Consultant: PM | | | | | |
| Consultant: PL | | | | | |
| Consultant: ER | | | | | |
| Consultant: RW | | | | | |
| Consultant: DS | | | | | |
| Consultant: CM | | | | | |
| Water Supply | \$27,122,927 | \$22,265,776 | \$12,597,041 | \$18,328,046 | \$209,004,092 |
| CUW301 Lake Merced Water Level Restoration | \$1,904,986 | \$523,656 | \$195,536 | \$22,919,437 | \$25,543,515 |
| Labor | \$818,081 | \$88,689 | \$65,448 | \$271,575 | \$1,243,793 |
| Other City Departments | \$284,259 | \$140,659 | \$18,905 | \$10,329 | \$454,161 |
| Other Direct Charges | | | | | |
| Construction | | | | \$20,940,720 | \$20,940,720 |
| Consultant: PM | \$184,497 | \$23,400 | \$13,948 | \$12,567 | \$234,412 |
| Consultant: PL | | | | | |
| Consultant: ER | \$123,465 | \$74,570 | \$69,111 | \$599 | \$267,745 |
| Consultant: RW | | \$3,258 | \$11,835 | | \$15,093 |
| Consultant: DS | \$381,774 | \$168,609 | \$16,288 | | \$566,671 |
| Consultant: CM | \$112,911 | \$26,360 | | \$1,683,647 | \$1,822,919 |
| CUW30102 San Francisco Groundwater Supply | \$2,604,229 | \$1,491,081 | \$25,807,449 | \$4,131,003 | \$34,033,762 |
| Labor | \$805,051 | \$364,206 | \$341,041 | \$2,278,603 | \$3,788,900 |
| Other City Departments | \$1,145,670 | \$657,689 | \$285,210 | \$360,690 | \$2,449,459 |
| Other Direct Charges | | | | | |
| Construction | | | \$24,877,545 | | \$24,877,545 |

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|--|--|--------------------|---------------------|-----------------------------------|----------------------|
| Consultant: PM | \$105,239 | \$165,101 | \$93,488 | \$302,981 | \$666,809 |
| Consultant: PL | | | | | |
| Consultant: ER | \$228,807 | \$241,592 | \$93,894 | | \$562,394 |
| Consultant: RW | | | \$81,730 | | \$81,730 |
| Consultant: DS | \$321,361 | \$62,493 | | | \$383,854 |
| Consultant: CM | | | \$34,540 | \$1,188,530 | \$1,223,070 |
| CUW302 San Francisco Westside Recycled Water | \$3,725,760 | \$7,754,515 | \$94,742,812 | \$11,088,997 | \$117,312,084 |
| Labor | \$1,406,408 | \$2,350,221 | \$1,743,788 | \$6,895,281 | \$12,395,698 |
| Other City Departments | \$877,281 | \$1,430,393 | \$226,960 | \$1,800,482 | \$4,135,126 |
| Other Direct Charges | \$58,430 | | | | \$58,430 |
| Construction | | | \$91,608,000 | | \$91,608,000 |
| Consultant: PM | \$355,420 | \$469,859 | \$188,458 | | \$1,013,746 |
| Consultant: PL | | | | | |
| Consultant: ER | \$347,807 | \$653,074 | \$92,944 | | \$1,093,825 |
| Consultant: RW | | \$79,275 | | | \$79,275 |
| Consultant: DS | \$680,394 | \$2,771,893 | \$458,896 | | \$3,910,984 |
| Consultant: CM | | | \$423,766 | \$2,593,234 | \$3,017,000 |
| CUW302 Recycled Water Project - Pacifica (Closed) | | | | | |
| Labor | | | | | |
| Other City Departments | | | | | |
| Other Direct Charges | | | | | |
| Construction | | | | | |
| Consultant: PM | | | | | |
| Consultant: PL | | | | | |
| Consultant: ER | | | | | |
| Consultant: RW | | | | | |
| Consultant: DS | | | | | |
| Consultant: CM | | | | | |
| CUW30204 Harding Park Recycled Water | \$940,164 | \$7,125,047 | \$139,307 | | \$8,204,518 |
| Labor | \$421,875 | \$315,213 | \$48,682 | | \$785,770 |
| Other City Departments | \$178,179 | \$38,202 | \$5,489 | | \$221,870 |
| Other Direct Charges | \$2,495 | | | | \$2,495 |
| Construction | | \$6,384,564 | | | \$6,384,564 |
| Consultant: PM | \$84,830 | | | | \$84,830 |
| Consultant: PL | | | | | |
| Consultant: ER | \$69,536 | | | | \$69,536 |
| Consultant: RW | | | | | |
| Consultant: DS | \$125,789 | \$10,078 | | | \$135,867 |
| Consultant: CM | \$57,460 | \$376,990 | \$85,136 | | \$519,586 |
| CUW302 San Francisco Eastside Recycled Water | \$537,789 | \$5,371,578 | \$7,711,939 | \$10,288,908 | \$23,910,213 |
| Labor | \$412,789 | \$2,313,311 | \$3,735,358 | \$4,685,715 | \$11,127,173 |
| Other City Departments | | | | | |
| Other Direct Charges | | | | | |
| Construction | | | | | |
| Consultant: PM | \$125,000 | \$194,843 | \$390,695 | \$614,461 | \$1,325,000 |
| Consultant: PL | | \$2,687,087 | \$751,956 | | \$3,439,023 |
| Consultant: ER | | \$176,357 | \$924,976 | \$788,843 | \$1,890,176 |
| Consultant: RW | | | \$65,271 | \$184,729 | \$250,000 |
| Consultant: DS | | | \$1,843,682 | \$4,035,169 | \$5,878,842 |
| Consultant: CM | | | | | |
| CUW390 SF Bay Area Desalination Plant (Closed) | | | | | |
| Labor | | | | | |
| Other City Departments | | | | | |
| Other Direct Charges | | | | | |
| Construction | | | | | |
| Consultant: PM | | | | | |
| Consultant: PL | | | | | |
| Consultant: ER | | | | | |
| Consultant: RW | | | | | |
| Consultant: DS | | | | | |
| Consultant: CM | | | | | |
| REGIONAL | | | | | |
| Labor | \$54,739,135 | \$55,091,223 | \$36,743,136 | \$49,266,717 | \$195,840,212 |
| Consultants | \$46,096,680 | \$71,403,046 | \$47,887,831 | \$90,486,147 | \$256,583,684 |
| Construction & Pre-Purchase | \$3,351,667 | \$1,895,780,183 | \$102,171,752 | \$51,539,001 | \$2,052,842,804 |
| LOCAL | | | | | |
| Labor | \$13,488,806 | \$13,230,099 | \$10,281,010 | \$17,189,933 | \$54,179,848 |
| Consultants | \$4,282,156 | \$10,150,631 | \$6,040,409 | \$11,829,621 | \$32,102,818 |
| Construction | \$4,253,187 | \$21,391,969 | \$166,544,387 | \$20,940,720 | \$213,130,263 |
| GRAND TOTAL | | | | | |
| Labor (City Labor plus Direct Costs) | \$68,227,942 | \$68,321,323 | \$47,024,146 | \$66,456,651 | \$250,020,060 |
| Consultants | \$51,278,837 | \$81,553,677 | \$53,928,240 | \$102,315,768 | \$288,886,502 |
| Construction & Pre-Purchase | \$7,604,854 | \$1,917,172,153 | \$268,716,139 | \$72,479,721 | \$2,265,873,059 |



SAN FRANCISCO PUBLIC UTILITIES COMMISSION

PROJECT MANAGEMENT BUREAU
INFRASTRUCTURE DIVISION
SURINDERJEET BAJWA, BUREAU MANAGER
1155 MARKET STREET, 6TH FLOOR • SAN FRANCISCO, CA 94103 • TEL. (415) 551-4514 • FAX (415) 551-4695



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COMMISSIONER

ED HARRINGTON
GENERAL MANAGER

MEMORANDUM

DATE: March 31, 2010

TO: Nathan Cruz, Budget Analyst

FROM: Surinderjeet Bajwa, PMB Manager *[Signature]*

SUBJECT: WSIP TIMELINE AND MAJOR EXPLANATIONS FOR COST INCREASES

WSIP TIMELINE

- May 2002: Commission approval of Long-Term Strategic Plan, Long-Range Financial Plan and Capital Improvement Program (CIP) -collectively referred to as Baseline CIP
- September 2002: Approval of State Assembly Bill 1823 (Wholesale Regional Water System Security and Reliability Act)
- November 2002: San Francisco Residents approval of \$1.6B revenue bond measure (Proposition A) to fund CIP
- February 2003: Submittal of Baseline CIP to State (Total Program Cost: \$3.628B)
- January 2004: Start of Construction of 1st WSIP Project (Sunset Circulation Improvements)
- April 2004: Start of Programmatic Environmental Implementation Report (PEIR)
- January 2005: Commission adoption of WSIP Levels of Service (LOS) goal

WSIP TIMELINE AND MAJOR EXPLANATIONS FOR COST INCREASES

- February 2005: Program description outlining LOS goals and projects for PEIR
- December 2005: Commission approval of December 2005 WSIP (Total Program Cost: \$4.343B)
- February 2008: Commission approval of December 2007 Revised WSIP (Total Program Cost: \$4.392B)
- October 2008: PEIR certification and Commission approval of "Phased WSIP Variant"
- December 2008: Start of Construction -New Crystal Springs Bypass Tunnel
- March 2009: Start of Construction -Tesla Treatment Facility
- July 2009: Commission approval of June 2009 Revised WSIP (Total Program Cost: \$4.586B)
- August 2009: Start of Construction -BDPL Nos. 3 & 4 Crossover & Alameda Siphon #4
- January 2010: Start of Construction -BDPL Reliability Upgrade -BDPL No.5
- February 2010: Start of Construction -BDPL Reliability Upgrade -Bay Tunnel
- December 2015: Program completion

WSIP TIMELINE AND MAJOR EXPLANATIONS FOR COST INCREASES

MAJOR EXPLANATIONS FOR COST INCREASES

As a result of an extensive program review, initiated in 2004 by the SFPUC General Manager, the revised program reduced the number of capital improvement projects from forty (40) in 2002, to thirty-nine (39) in 2005. Six (6) new projects were added to meet refined water quality, seismic reliability, and water supply/drought reliability goals. Seven (7) projects from the 2002 program were removed; some were reassigned to the SFPUC Repair & Replacement Program, while some were replaced by other projects within the current WSIP. Lastly, three (3) projects were reassigned within the program, listed currently as individual regional system projects. After this program review, it is expected that significantly fewer changes will be made in the future.

\$715M Increase from February 2003 (\$3.6288) to December 2005 (\$4.3438)

- **BDPL Reliability Upgrade -New concept involving Bay Tunnel (+\$323M)**
Justification: As originally scoped, this project provided for 17 miles of pipeline within the existing right-of way of the BDPL Nos. 3 & 4. The initial 17-mile project did not meet the system LOS goals. Therefore, the SFPUC is proposing to construct a new 21-mile Bay Division Pipeline (BDPL No. 5) from Irvington Tunnel Portal in Fremont to Pulgas Tunnel Portal near Redwood City, including a 5-mile tunnel section under San Francisco Bay and adjacent marshlands. Building this option with longer pipeline sections and a tunnel provides seismic reliability as well as delivery reliability. This option would also provide a more environmentally preferable project, given the extreme environmental sensitivity of the Bay shoreline and salt marshes at the northern point where the BDPL traverses the Bay.
- **Added scope to Groundwater and Recycled Water projects (+\$100M)**
Justification: This project was originally part of the Local Project Improvements of the 2002 CIP to be implemented within the City of San Francisco. It was expanded to include benefits to the regional water system and revised to provide up to 7 MGD of additional supply during drought years. This additional water source will increase regional water system supplies during dry years. The project will also provide approximately 3 MGD through groundwater wells located primarily on the west side of the City of San Francisco.
- **Additional environmental budget for PEIR and project EIRs (+\$145M)**
Justification: This budget was added to cover program level and project specific environmental reviews, approval and permitting costs.

WSIP TIMELINE AND MAJOR EXPLANATIONS FOR COST INCREASES

- **Addition of Watershed and Environmental Improvement Program (+\$20M)**
Justification: The Watershed and Environmental Improvement Program was added to identify, prioritize, protect and restore mission-critical lands within the hydrologic boundaries of the Alameda Creek, Peninsula, and Tuolumne River Watersheds. The Watershed and Environmental Improvement program will ensure the delivery of high quality water to Bay Area communities and the preservation of significant ecological resources within SFPUC watershed lands.
- **Project scope adjustments to meet LOS goals (+\$680M)**
Justification: The program LOS goals were defined by the WSIP team and approved by the SF PUC Commission.
- **Refinement of program escalation at project level (\$-34M)**
Justification: Program escalation was reduced to 3.5% across all the projects.
- **Elimination of Management Reserve (-\$408M)**
Justification: No Management Reserve was budgeted for the Program.
- **Financing adjustment (-\$111 M)**
Justification: Finance has been recalculated based on revised program cost and the forecast finance rate.

\$49M Increase from December 2005 (\$4.3438) to December 2007 (\$4.3928)

- **New Irvington Tunnel - New tunneling method (+\$128M)**
Justification: The original plan was to use a Tunnel Boring Machine (TBM) with a single heading from the Alameda West Portal; this methodology has proven to be infeasible, and would result in a 5-year construction schedule. Instead, the Project Team has recently selected a new approach involving conventional mining from three headings (one from Alameda West Portal, and two from an intermediate shaft where the tunnel crosses under I-680). As a result of this change project schedule was shortened.
- **Calaveras Dam Replacement -Revised construction estimate (+\$51M)**
Justification: The construction budget was increased due to the latest construction cost estimate prepared based on detailed design documents.
- **BDPL Reliability Upgrade -Revised construction estimate (+\$40M)**
Justification: The construction budget was increased due to the latest construction cost estimate prepared based on detailed design documents.
- **SWWTP Expansion & TWR -Revised project scope (-\$81M)**

WSIP TIMELINE AND MAJOR EXPLANATIONS FOR COST INCREASES

Justification: The design concept for the TWR has changed to include one 17.5 MG circular basin and a 3.5 MG rectangular chlorine contact chamber. The purpose of the SWWTP expansion is to increase the sustainable capacity (capacity with the largest unit out of service) to 160 mgd. The expansion will increase the sustainable capacity to 160 mgd by adding a new flocculation/sedimentation basin and by retrofitting some of the existing filters. From project inception through the planning phase, the scope included three new filters in addition to the new flocculation/sedimentation basin. However, during Program Value Engineering, the Water Enterprise and WSIP staff identified that the 160 MGD capacity could be achievable and sustainable by adding a new flocculation/sedimentation basin without new filters since this would provide reliability to the performance of the existing filters, which are currently rated for 160 MGD with one filter out of service.

- **SJPL System & Rehabilitation of Existing SJPLs -Revised project scope (-\$72M)**

Justification: The scope of this project reduced. It is being proposed to delete the full. Instead of full replacement of six miles of PCCP on the easternmost section of SJPL No. 3 from the SJPL System Project (CUW37301), an allocation was provided to this project to perform an extensive conditions assessment of this PCCP pipeline section, perform some necessary repairs to improve the reliability of the most vulnerable segments, and initiate an active monitoring system to detect future pipeline impairments.

- **Financing adjustment (-\$90M)**

Justification: Finance has been recalculated based on revised program cost and forecast finance rate.

\$194M Increase from December 2007 (\$4.392) to June 2009 (\$4.5868)

- **Calaveras Dam Replacement -Fisheries and NOA issues (+\$102M)**

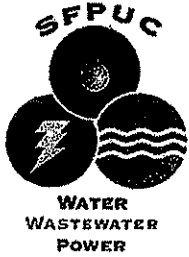
Justification: As a result of geotechnical study, we learned that the project site contains Naturally Occurring Asbestos (NOA). The scope, budget and schedule of this project have significantly increased due to the efforts required for addressing the NOA and Fisheries issues.

- **HWTWP Long-Term Improvements -New seismic risks (+183M)**

Justification: Geotechnical investigations that were completed during the first and second quarter of FY2008/2009 confirmed the location and the potential displacement from the eastern and western strands of the Serra Fault at the plant site. The project scope and budget has significantly increased due to address the new seismic risks.

WSIP TIMELINE AND MAJOR EXPLANATIONS FOR COST INCREASES

- **Competitive bidding environment (-\$100M)**
Justification: Based on the current construction market condition, we are forecasting a reduction in Construction cost. Our assumption includes no cost escalation for year 2009 due to the current bidding environment.
- **Financing adjustment (+\$9M)**
Justification: Finance has been recalculated based on the revised program cost and forecast finance rate.



SAN FRANCISCO PUBLIC UTILITIES COMMISSION



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MEMORANDUM

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GENERAL MANAGER

DATE: March 31, 2010
TO: Nathan Cruz, Budget Analyst
FROM: Surinderjeet Bajwa, PMB Manager *[Signature]*
SUBJECT: Explanation of Cost Changes in Top 5 WSIP Projects

Bay Division Pipeline Reliability Upgrade: Current Cost \$600M

- Un-escalated Original Cost 249M
- New Tunneling System Added (explained below) +323M
Including adding the escalation and contingencies
- Construction Cost Revision 45M
- Estimate Revised Per Market Conditions - 17M
- Total Current Cost 600M

As originally scoped, this project provided for 17 miles of pipeline within the existing right-of way of the BDPL Nos. 3 & 4. The initial 17-mile project did not meet the system LOS goals. Therefore, the SFPUC is proposing to construct a new 21-mile Bay Division Pipeline (BDPL No. 5) from Irvington Tunnel Portal in Fremont to Pulgas Tunnel Portal near Redwood City, including a 5-mile tunnel section under San Francisco Bay and adjacent marshlands. Building this option with longer pipeline sections and a tunnel provides seismic reliability as well as delivery reliability. This option would also provide a more environmentally preferable project, given the extreme environmental sensitivity of the Bay shoreline and salt marshes at the northern point where the BDPL traverses the Bay.

Explanation of Cost Changes in Top 5 WSIP Projects

Calaveras Dam: Current Cost \$450M

| | |
|--|-------------|
| • Un-escalated Original Cost | 150M |
| • Scope Refinement including adding Escalation and Contingencies | +107M |
| • Construction Taking 2 years extra time | + 51M |
| • NOA and Fish Issue delay etc. | +102M |
| • San Antonio Back Up Pipeline project added | + 40M |
| • Total Current Cost | <u>450M</u> |

New Irvington Tunnel: Current Cost \$399M

| | |
|--|-------------|
| • Un-escalated Original Cost | 144M |
| • Add Program Escalation/Contingencies | + 62M |
| • New Tunneling Method | +128M |
| • Alameda Siphons Project #4 added | + 61M |
| • Additional scope refinement | + 4M |
| • Total Current Cost | <u>399M</u> |

Harry Tracy Water Treatment Plant: Current Cost \$359M

| | |
|---|-------------|
| • Un-escalated Original Cost | 37M |
| • Add Program Escalation/Contingencies | 17M |
| • Scope Changes for LOS Goals (explained below) | +122M |
| • Construction Changes for Seismic Risks | +183M |
| • Total Current Cost | <u>359M</u> |

Original Scope (at cost of about \$54 million including escalation and contingency) had very limited improvements identified in the plant. But with the Level of Service goals defined in 2005, the HTWTP became a major project to address the LOS goals. This project will provide process improvements necessary to sustain seismically-reliable capacity of 140 mgd for 60 days under all raw water quality conditions, including severe winter storms, algae blooms, and fires in the watershed which can result in high turbidity and organic loading. Long-term reliability and process facility improvements include disinfection treatment upgrades, reliable raw water pumping and conveyance capacity, hydraulic and pressure system improvements, inlet upgrades, power supply and instrumentation improvements, and seismic upgrade of remaining facility components (beyond upgrades implemented in the Short-term Improvements Project). Revised Cost in 2007 was \$176M. Construction addressing Geotechnical issues and relocation of two Reservoirs was additional \$183 Million.

Explanation of Cost Changes in Top 5 WSIP Projects

San Joaquin Pipeline: Current Cost \$310M

| | |
|---|-------------|
| • Original Cost | 392M |
| • Add Program Escalation/ Contingencies | +168M |
| • Scope Reduction in 2005 (explained below) | - 178M |
| • Scope Reduction in 2007 (explained below) | - 72M |
| • Total Current Cost | <u>310M</u> |

The original plan included the design and construction of a new SJPL#4 within the SFPUC right-of-way, parallel to the existing pipelines, 48 miles across the Central Valley. Then in 2005, it was changed to constructing a 9.7-mile section of new pipeline at the Tesla Portal; adding two new crossover facilities on the existing three pipelines; replacing approximately 6-miles of existing prestressed concrete cylinder pipe downstream of the Oakdale Portal and a comprehensive evaluation and subsequent repair and rehabilitation of the existing three San Joaquin Pipelines.

In 2007, it was revised to an eleven (11) mile-long segment of a new pipeline, the Western Segment, from the San Joaquin River to the Tesla Portal. The pipeline was to be 96-inches in diameter. The project also included crossover facilities at Emery Road (including ten (10) valves) and Pelican Road (including twelve (12) valves), and security-related site improvements at Oakdale Portal. Since 2007, the scope has been modified as follows without a cost impact:

- The Western Segment will be reduced to 10.3 miles, and the diameter will be reduced to 78- inches;
- An additional length of new pipeline, the Eastern Segment, will extend from the Oakdale Portal (the eastern end of the SJPLs) to a new connection point 6.7 miles downstream New valve on SJPL3. This segment will also be 78-inches in diameter; and facilities will be added to SJPL3 and four (4) along the Eastern Segment to provide for operational needs to isolate these lines for maintenance and to control pressure in the system.

In addition a condition assessment followed by upgrading and renewal as required, to access facilities and pipe coating at approximately 800 locations; and Upgrade of existing SJPL Supervisory and Control and Data Acquisition (SCADA) system is also included in the scope.