File No. 100338 Committee Item No. 8
Board Item No. _____

COMMITTEE/BOARD OF SUPERVISORS

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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.

[Appropriating $30,483,021 of proceeds from debt and fee revenues for water capital improvements at the Public Utilities Commission for Fiscal Year 2009-2010.]

Ordinance appropriating $30,483,021 of proceeds from debt and fee revenues for the San Francisco Public Utilities Commission (SFPUC) Water Enterprise's Capital Improvement Program for Fiscal Year 2009-2010 and placing $29,642,138 by project on Controller's reserve subject to SFPUC's and Board of Supervisors' discretionary approval following completion of project-related analysis pursuant to the California Environmental Quality Act (CEQA), where required, and receipt of proceeds of indebtedness and fee revenues.

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

Section 1. The sources of funding outlined below are herein appropriated to reflect the funding available for Fiscal Year 2009-2010.

SOURCES Appropriation

Fund	Index Code / Project Code	Subobject	Description	Amount
5W CPF 02E – Public Utilities Commission-2002 Proposition E Bond Fund	*WTR5WCPF02E / CUW02E00 – 2002 Proposition E Bond Funds	80111	Proceeds from Sale of Bonds	$28,474,840

Fund	Index Code / Project Code	Subobject	Description	Amount
5W CPF CAP - Public Utilities Commission – Capital Projects Capacity Fee Program	*WTR5WCPFCAP / CUW68301 – Water Capacity Fee Program	99999B	Capacity Fees – Fund Balance	$840,883
5W CPF CAP - Public Utilities Commission – Capital Projects Capacity Fee Program	*WTR5WCPFCAP / CUW68301 – Water Capacity Fee Program	79993	Capacity Fees – Projected	$1,167,298
Total SOURCES Appropriation				**$30,483,021**

Section 2. The uses of funding outlined below are herein appropriated in Subobject 06700 Buildings Structures and Improvements and 081C4 Internal Audits, and reflects the projected uses of funding to support the Water Capital Improvement Program at the San Francisco Public Utilities Commission for Fiscal Year 2009-2010.

USES Appropriation

Fund	Index Code / Project Code	Subobject	Description	Amount
5W CPF CAP - Public Utilities Commission – Capital Projects Capacity Fee Program	*WTR5WCPFCAP Project: CUW26000	06700 Buildings, Structures, and Improvements	Local Water Conveyance / Distribution	$2,008,181

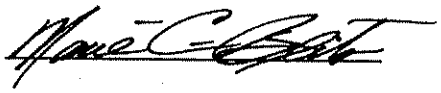
Fund	Index Code / Project Code	Subobject	Description	Amount
5W CPF 02E – Public Utilities Commission- 2002 Proposition E Bond Fund	*WTR5WCPF02E Project: CUW26000	06700 Buildings, Structures, and Improvements	Local Water Conveyance / Distribution	$24,203,614
5W CPF 02E – Public Utilities Commission- 2002 Proposition E Bond Fund	*WTR5WCPF02E Project: CUW02E00	06700 Buildings, Structures, and Improvements	Non WSIP Bond Financing Costs	$4,218,802
5W CPF 02E – Public Utilities Commission- 2002 Proposition E Bond Fund	*WTR5WCPF02E Project: CUW02E00	081C4 Internal Audits	City Services Auditor	$52,424
Total USES Appropriation				**$30,483,021**

Section 3. $29,642,138 of the appropriation is hereby placed on Controller's Appropriation Reserve by project. Release of appropriation reserves by the Controller is subject to the prior occurrence of: 1) the SFPUC's and the Board of Supervisors' discretionary adoption of CEQA Findings for projects, following review and consideration of completed project-related environmental analysis, where required, pursuant to CEQA, the State CEQA Guidelines, and Chapter 31 of the San Francisco Administrative Code, and 2) the Controller's certification of funds availability, including proceeds of indebtedness and fee revenues .

FUNDS AVAILABLE

APPROVED AS TO FORM:

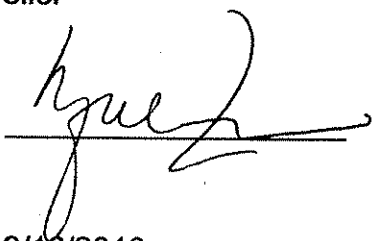
DENNIS J. HERRERA, City Attorney

By: 

Deputy City Attorney

BEN ROSENFIELD

Controller

By: 

Date: 3/16/2010

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) $1,647,249,198[1] 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 Fees[2] 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 underground[3] 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 $67,755,135 project to (a) retrofit or replace all 180,000 existing visual-read conventional water meters with advanced digital water meters and (b) create an associated network of transmitters to provide for the wireless transmission of water consumption data from the advanced digital water meters to the PUC's Customer Service Department and related organizations. The PUC previously intended to finance the AMI Project through a ten-year lease financing agreement with a private lender through the State of California's G$mart 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 Fees[4] 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	**$1,647,249,198**[6]	**$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-appropriation[7])
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 Fees[8], 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 costs[9]. 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 costs[12], 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, 2010[15] (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 $4,585,556,000[16].

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 $3,628,800,000[17]. 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.

Table 11: Recommended Typographical Corrections

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 $1,737,724,038
10-0337	Appropriates $1,647,249,198 for expenditure in FY 2009-2010	Appropriates $1,647,249,198 for expenditure in FY 2010-2011 through FY 2015-2016.
10-0338	Appropriates $30,483,021 for expenditure in FY 2009-2010	Appropriates $30,483,021 for expenditure in FY 2010-2011 and FY 2011-2012.

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 SFPUC July, 2009 Total Approved Budget	B Total Budget Appropriations to Date	C Expended as of Feb 1, 2010	D Encumbered	E =(B-C-D) Unencumbered Remaining Budget	I =(A-E) Total Project Cost less Total Budget Appropriation to Date	Supplemental Appropriation Request FY 2010 - 11	Total Remainding Expenditures
CUW364 LAWRENCE LIVERMORE SUPPLY IMPROVEMENTS	3,900,231	4,355,201	2,014,806	1,811,287	529,109	(454,970)	0	74,139
CUW373 SAN JOAQUIN PIPELINE SYSTEM	309,907,722	92,300,142	39,996,750	14,083,393	38,219,999	217,607,580	217,153,487	255,828,456
CUW384 TESLA TREATMENT FACILITY	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 TESLA PORTAL DISINFECTION STATION	2,082,155	2,081,278	2,081,278	0	0	877	0	0
SAN JOAQUIN WATER SYSTEM IMPROVEMENT PROJECTS	**430,052,456**	**207,336,653**	**95,263,076**	**67,076,236**	**44,997,342**	**222,715,803**	**222,715,803**	**267,713,145**
CUW352 ALAMEDA CREEK FISHERY ENHANCEMENT	21,855,361	4,836,252	1,830,868	169,934	2,835,450	17,019,109	17,019,109	19,854,559
CUW355 STANDBY POWER FAC VARIOUS LOCATIONS	13,110,232	13,110,232	12,618,524	168,588	323,120	0	0	323,120
CUW359 IRVINGTON TUNNEL ALTERNATIVES	398,585,442	354,416,233	43,801,490	40,600,213	270,014,530	44,169,209	44,169,209	314,183,739
CUW370 PIPELINE REPAIR & READINESS IMPROVEMENTS	5,407,880	5,653,459	5,193,500	0	459,959	(245,579)	0	214,380
CUW374 CALAVERAS DAM REPLACEMENT	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 SVWTP EXPANSION/TREATED WATER RESERVOIR	144,907,026	125,795,940	13,608,841	2,014,964	110,172,135	19,111,088	19,111,088	129,283,223
CUW382 SVWTP TREATED WATER RES PRE PLAN/DESIGN	5,070,808	5,245,892	5,056,594	0	189,298	(175,084)	0	14,214
CUW386 SAN ANTONIO PUMP STATION UPGRADE	14,712,922	15,601,360	3,032,999	8,314,080	4,254,281	(888,438)	0	3,365,843
SUNOL VALLEY WATER SYSTEM IMPROVEMENT PROJECTS	**1,053,987,667**	**806,508,919**	**127,233,074**	**57,541,974**	**621,733,871**	**247,478,748**	**247,478,748**	**869,212,619**
CUW353 SEISMIC UPGRADE BDPL @ HAYWARD FAULT	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 INSTALLATION OF SCADA SYSTEM PH II	27,612,864	24,298,026	7,511,697	6,777,630	10,008,699	3,314,838	3,314,838	13,323,537
CUW368 BDPL HYDRAULIC RELIABILITY UPGRADE	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 BDPL NO 3&4 CROSS CONNECTION	33,944,441	34,506,568	8,512,298	14,664,833	11,329,438	(562,127)	0	10,767,311
CUW389 EBMUD INTERTIE	8,429,072	8,599,723	8,546,573	1,643	51,507	(170,651)	0	0
CUW393 BDPL#4 CONDITION ASSESSMENT PCCP SECTION	2,028,308	2,120,259	1,891,870	42,598	185,791	(91,951)	0	93,840
BAY DIVISION WATER SYSTEM IMPROVEMENT PROJECTS	**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 LOWER CRYSTAL SPRINGS DAM IMPROVEMENTS	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 NEW CRYSTAL SPRINGS BYPASS TUNNEL	94,608,996	100,623,562	41,431,346	45,169,654	14,022,562	(6,014,566)	0	8,007,996
CUW357 ADIT LEAK REPAIRS (CS/CALV RES)	2,792,885	3,236,526	2,787,323	0	449,203	(443,641)	0	5,562
CUW361 PULGAS BALANCING RESERVOIR REHAB	34,099,826	42,101,697	8,831,000	17,745,535	15,525,162	(8,001,871)	0	7,523,291
CUW365 CROSS CONNECTION CONTROLS	3,802,674	6,244,597	3,811,559	68,588	2,364,450	(2,441,923)	0	0
CUW366 HTWTP SHORT TERM IMPROVEMENTS PH A	24,038,226	25,453,204	22,113,115	1,102,933	2,237,157	(1,414,978)	0	822,179
CUW36701 HTWTP LONG TERM IMPROVEMENTS	359,063,409	31,284,528	17,401,361	266,595	13,616,572	327,778,881	304,972,087	341,295,131
CUW36702 PENINSULA PIPELINE SEISMIC UPGRADE	15,000,000	3,934,000	0	0	3,934,000	11,066,000	11,066,000	15,000,000
CUW369 CAPUCHINO VALVE LOT CAPACITY IMPROVEMENT	2,818,378	3,494,351	2,803,152	38,076	653,123	(675,973)	0	0
CUW371 CRYSTAL SPRINGS/SAN ANDREAS UPGRADE	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 CRYSTAL SPRINGS PL #2 REPLACE (IN CITY)	71,243,333	9,925,637	8,472,140	963,525	489,971	61,317,696	61,317,696	61,807,667
CUW379 SAN ANDREAS #3 PIPELINE INSTALLATION	31,903,033	34,503,085	8,756,916	17,289,075	8,457,094	(2,600,052)	0	5,857,042
CUW391 BADEN AND SAN PEDRO VALVE LOT	27,089,503	28,303,293	9,136,941	13,962,823	5,203,529	(1,213,790)	0	3,989,739
PENINSULA WATER SYSTEM IMPROVEMENT PROJECTS	**894,784,082**	**337,221,705**	**152,050,445**	**100,061,274**	**85,109,986**	**557,562,377**	**557,562,377**	**642,672,364**
CUW30103 REGIONAL GROUNDWATER STORAGE/RECOVERY	49,848,731	12,275,175	5,232,382	1,721,670	5,321,123	37,573,556	16,250,288	42,894,679
CUW358 SUNSET RES - UPGRADE/REHAB NORTH BASIN	64,334,929	65,922,928	64,111,856	79,334	1,731,738	(1,587,999)	0	143,739
CUW372 U MOUND RES - UPGRADE (NORTH BASIN)	46,146,700	65,881,969	8,785,031	32,133,033	24,963,905	(19,735,269)	0	5,228,636
SAN FRANCISCO REGIONAL WATER SYSTEM PROJECTS	**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 ENVIRONMENTAL IMPACT PROJECT (PEIR)	11,086,441	10,918,172	10,517,619	348,599	51,954	168,269	168,269	220,223
CUW388 02 HABITAT RESERVE PROGRAM	48,146,219	6,859,832	4,522,874	1,551,186	785,772	41,286,387	41,286,387	42,072,159
CUW392 PROGRAM MANAGEMENT SERVICES - WSIP	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 WATERSHED ENVIRONMENTAL IMPROVEMENTS	20,000,000	6,815,114	370,065	0	6,445,049	13,184,886	13,184,886	19,629,935
SYSTEM WIDE REGION	**189,757,910**	**79,313,596**	**56,990,451**	**10,325,909**	**11,997,235**	**110,444,314**	**110,444,314**	**122,441,549**
TOTAL REGIONAL PROJECTS	**3,514,026,150**	**2,233,269,034**	**627,664,608**	**381,094,842**	**1,224,509,583**	**1,280,757,116**	**1,280,757,116**	**2,505,286,700**

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Attachment I
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Project		A SFPUC July, 2009 Total Approved Budget	B Total Budget Appropriations to Date	C Expended as of Feb 1, 2010	D Encumbered	E =(B-C-D) Unencumbered Remaining Budget	I =(A-E) Total Project Cost less Total Budget Appropriation to Date	Supplemental Appropriation Request FY 2010 - 11	Total Remainding Expenditures
CUW307	SUMMIT RES REHAB/SEISMIC UPGRADE	13,050,000	14,321,086	12,061,953	1,535,416	723,716	(1,271,086)	0	0
CUW319	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
CUW334	STANFORD HEIGHTS RES REHAB/UPGRADE	24,110,000	25,150,000	22,944,300	1,377,078	828,622	(1,040,000)	0	0
CUW335	POTRERO HEIGHTS RES REHAB/UPGRADE	6,838,947	7,267,369	6,836,736	0	430,633	(428,422)	0	0
CUW337	SUTRO RES - REHAB/SEISMIC UPGRADE	56,785,000	35,896,828	1,685,967	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**	**62,173,965**
CUW306	CROCKER AMAZON PUMP STATION UPGRADE	4,126,498	4,256,092	4,103,838	0	152,254	(129,594)	0	0
CUW309	LAKE MERCED PUMP STATION UPGRADE	49,340,000	70,459,755	10,157,512	30,810,706	29,491,537	(21,119,755)	0	8,371,762
CUW314	LA GRANDE TANK REHAB/SEISMIC UPGRADE	6,987,728	7,101,112	6,987,688	0	113,424	(113,384)	0	0
CUW318	FOREST HILL TANK REHAB/SEISMIC UPGRADE	2,936,199	2,941,594	2,936,199	0	5,395	(5,395)	0	0
CUW320	FOREST HILL PUMP STATION UPGRADE	7,200,000	6,325,890	423,567	123,699	5,778,624	874,110	0	6,652,734
CUW321	FOREST KNOLLS PUMP STATION UPGRADE	6,395,000	6,966,000	6,138,770	13,039	814,191	(571,000)	0	243,191
CUW322	LINCOLN PARK PUMP STATION UPGRADE	4,341,621	4,741,646	4,343,567	0	398,079	(400,025)	0	0
CUW323	MCLAREN 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
CUW324	MOUNT DAVIDSON PUMP STATION UPGRADE	4,573,500	5,856,000	4,110,239	169,115	1,576,645	(1,282,500)	0	294,145
CUW325	PALO ALTO PUMP STATION UPGRADE	6,484,000	6,618,406	6,073,308	351,292	193,806	(134,406)	0	59,400
CUW326	SKY VIEW/AQUA VISTA PUMP ST UPGRADES	4,920,000	5,574,275	4,739,797	0	834,478	(654,275)	0	0
CUW327	SUMMIT PUMP STATION UPGRADE	6,531,105	7,172,573	6,528,946	0	643,627	(641,468)	0	0
CUW328	MCLAREN #1 TANK REHAB/SEISMIC UPGRADE	4,684,430	5,096,799	4,659,453	0	437,346	(412,369)	0	0
CUW329	POTRERO HEIGHTS TANK REHAB/UPGRADE	1,084,863	1,261,584	1,084,863	0	176,721	(176,721)	0	0
CUW330	FOREST KNOLLS TANK REHAB/UPGRADE	3,675,000	3,900,000	3,404,029	29,056	466,915	(225,000)	0	241,915
CUW331	LINCOLN PARK TANK REHAB/SEISMIC UPGRADE	2,690,656	3,073,146	2,690,656	0	382,490	(382,490)	0	0
CUW332	MCLAREN #2 TANK REHAB/SEISMIC UPGRADE	4,459,119	5,230,705	4,458,201	0	772,504	(771,586)	0	0
CUW333	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
CUW338	LE GRANDE PUMP STATION UPGRADE	7,205,000	7,266,000	929,444	67,130	6,269,426	(61,000)	0	4,369,947
CUW339	POTRERO HEIGHTS PUMP STATION UPGRADE	605,670	725,000	605,670	0	119,330	(119,330)	0	0
CUW340	VISTA FRANCISCO PUMP STATION UPGRADE	6,950,900	6,955,000	2,446,579	2,325,065	2,183,356	(4,100)	0	2,179,256
SAN FRANCISCO LOCAL PUMP STATION/TANKS		**167,437,689**	**196,846,577**	**106,999,511**	**36,698,988**	**53,148,078**	**(29,408,888)**	**(29,408,888)**	**23,739,190**
CUW304	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
CUW308	KEY MOTORIZED/OTHER CRITICAL VALVES	10,984,746	11,773,385	10,984,746	0	788,639	(788,639)	0	0
CUW311	SUNSET CIRCULATION IMPROVEMENTS	6,983,984	6,984,012	6,983,984	0	28	(28)	0	0
CUW312	LINCOLN WAY TRANSMISSION LINE	13,950,000	14,735,930	13,766,196	271,262	698,472	(785,930)	0	0
CUW313	NOE VALLEY TRANSMISSION MAIN PH2	7,382,000	12,000,000	4,658,518	987,694	6,353,788	(4,618,000)	0	1,648,330
CUW315	EAST WEST TRANSMISSION MAIN	28,600,000	28,600,000	27,505,719	40,510	1,053,771	0	0	1,053,771
CUW316	FULTON@6TH 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**
CUW303	VEHICLE SERVICE & FACILITY UPGRADE	4,461,400	5,371,000	3,972,170	2,626	1,396,203	(909,600)	0	486,603
CUW305	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**
CUW30101	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
CUW30102	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
CUW30201	RECYCLED WATER PROJECT SAN FRANCISCO	125,922,889	15,776,667	7,355,383	1,255,422	7,165,862	110,146,222	110,146,222	117,312,084
CUW30202	RECYCLED WATER PROJECT PACIFICA (Closed)	348,207	70,336	70,336	0	0	277,871	0	0
CUW30204	HARDING PARK RECYCLED WATER	9,611,818	10,527,200	971,478	435,822	9,119,900	(915,382)	0	8,204,518
CUW30205	SAN FRANCISCO EASTSIDE RECYCLED WATER	22,900,000	3,730,000	0	38,016	3,691,984	19,170,000	18,289,688	23,910,213
CUW390	SF BAY AREA DESALINATION PLANT	937,684	1,180,485	167,326	0	1,013,159	(242,801)	0	0
TOTAL LOCAL PROJECTS		**599,830,111**	**432,437,890**	**253,382,945**	**47,034,237**	**132,020,708**	**167,392,221**	**167,392,221**	**299,412,929**
TOTAL WSIP PROJECTS		**4,113,856,261**	**2,665,706,924**	**881,047,553**	**428,129,079**	**1,356,530,292**	**1,448,149,337**	**1,448,149,337**	**2,804,679,629**
CUW300	BOND/COMMERCIAL PAPER EXPENSE	471,700,000	272,600,138	9,461,718	102,441	263,035,979	199,099,862	199,099,861	462,135,840
TOTAL - WATER SYSTEM IMPROVEMENT PROGRAM		**4,585,556,261**	**2,938,307,062**	**890,509,271**	**428,231,520**	**1,619,566,271**	**1,647,249,199**	**1,647,249,198**	**3,266,815,469**

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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
b2CIP 2002 Water System Improvement Program	**$127,111,812**	**$2,067,047,152**	**$389,448,524**	**$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**
RW-SJ San Joaquin Region	**$10,344,198**	**$231,671,683**	**$14,059,352**	**$10,437,412**	**$267,712,646**
CUW36401 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	**$9,292,747**	**$224,612,350**	**$12,485,947**	**$10,437,412**	**$255,828,456**
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	$3,536,575	$2,525,644	$280,907	$7,995,357
Construction		$204,063,176		$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	$906,705	$737,872			$1,644,577
Consultant: DS	$1,162,331	$3,485,029			$4,647,360
Consultant: CM	$875,236	$5,572,763	$6,752,760	$6,413,737	$19,614,496
CUW38401 Tesla Treatment Facility	**$2,977,312**	**$7,259,233**	**$1,574,008**		**$11,810,550**
Labor	$569,492	$2,366,030	$1,390,442		$4,325,964
Other City Departments	$91,933	$445,540	$183,563		$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
RW-SV Sunol Valley Region	**$2,332,160**	**$74,191,415**	**$48,976,516**	**$55,980,427**	**$869,212,619**
CUW35201 Upper Alameda Creek Filter Gallery	**$2,406,450**	**$1,085,133**	**$1,048,623**	**$15,314,352**	**$19,854,559**
Labor	$1,202,812	$696,727	$528,249	$1,031,223	$3,459,010
Other City Departments		$17,335	$19,987	$17,101	$54,423
Other Direct Charges		$5,434	$6,562	$1,002,986	$1,014,982
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**	**$10,837,297**	**$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	$1,564,751	$6,041	$10,367	$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	$1,055,791	$4,306,187	$4,306,264	$7,389,550	$17,057,791
CUW37001 Pipeline Repair & Readiness Improvements (Compl	**$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	**$9,259,328**	**$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	$1,063,777	$67,153	$135,452	$407,984	$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	$2,006,851				$2,006,851
Consultant: CM		$1,914,278	$7,402,551	$22,296,479	$31,613,308
CUW38 SVWTP Expansion & Treated Water Reservoir	**$1,733,611**	**$118,619,627**	**$5,707,328**	**$3,222,657**	**$129,283,223**
Labor	$760,189	$2,607,563	$2,665,798	$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 SVWTP 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	$357,836				$357,836
Consultant: PM	$81,695				$81,695
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
SUBTOTAL CUW38	**$27,449,757**	**$426,540,892**	**$77,953,728**	**$23,030,595**	**$554,975,972**
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	$4,135,267
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	$739,454	$1,775,248	$47,277		$2,561,979
Consultant: CM			$829,717	$4,523,929	$5,353,646
CUW36 SCADA System - Phase II	**$5,639,527**	**$6,125,377**	**$1,558,633**		**$13,323,537**
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	$599,796	$1,358,400	$119,222		$2,077,419
CUW36 BDPL Reliability Upgrade - Tunnel	**$8,175,309**	**$259,726,221**	**$6,029,759**	**$15,373,479**	**$289,304,768**
Labor	$2,877,101	$2,973,586	$2,876,647	$7,794,818	$16,522,151
Other City Departments	$987,371	$96,659	$56,850	$311,105	$1,451,986
Other Direct Charges		$17,264	$17,265	$189,970	$224,498
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
CUW36802 BDPL Reliability Upgrade - Pipeline	**$8,197,664**	**$154,187,025**	**$3,375,978**	**$187,118**	**$165,947,786**
Labor	$2,422,867	$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
CUW3800 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
CUW3890 SFPUC/EBMUD Intertie					
Labor					
Other City Departments					
Other Direct Charges					
Construction					
Consultant: PM					
Consultant: PL					
Consultant: ER					
Consultant: RW					
Consultant: DS					
Consultant: CM					
CUW3930 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					
RW/PUC Peninsula Region	$26,108,467	$562,860,175	$21,451,787	$32,451,936	$642,872,364
CUW35401 Lower Crystal Springs Dam Improvements	$2,321,650	$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	$609,396	$69,796			$679,193
Consultant: RW					
Consultant: DS	$117,213	$2,768			$119,981
Consultant: CM		$264,149	$296,105		$560,255
CUW3560 New Crystal Springs Bypass Tunnel	$2,273,511	$4,451,379	$1,283,106		$8,007,996
Labor	$251,067	$406,490	$274,033		$931,590
Other City Departments	$225,803	$451,607	$117,939		$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	$1,752,787	$3,505,574	$869,382		$6,127,743
CUW3570 Adit 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					
CUW3610 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
CUW3610 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					

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: ER					
Consultant: RW					
Consultant: DS					
Consultant: CM	$420,741	$441,480	$110,370		$972,591
CUW36105 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
CUW3655(Cross Connection Controls					
Labor					
Other City Departments					
Other Direct Charges					
Construction					
Consultant: PM					
Consultant: PL					
Consultant: ER					
Consultant: RW					
Consultant: DS					
Consultant: CM					
CUW3660 HTWTP Short-Term Improvements - Coagulation & Flocc	$822,179				$822,179
Labor	$681,910				$681,910
Other City Departments					
Other Direct Charges					
Construction					
Consultant: PM					
Consultant: PL					
Consultant: ER					
Consultant: RW					
Consultant: DS					
Consultant: CM	$140,269				$140,269
CUW3670 HTWTP Long-Term Improvements	$5,368,905	$315,369,329	$8,226,756	$12,328,141	$341,295,131
Labor	$1,549,927	$4,394,396	$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	$235,661	$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	$790,819				$790,819
Consultant: ER	$839,666	$148,688	$148,688	$30,927	$1,167,968
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
CUW3690 Capuchino Valve Lot Improvements [Completed]					
Labor					
Other City Departments					
Other Direct Charges					
Construction					
Consultant: PM					
Consultant: PL					
Consultant: ER					
Consultant: RW					
Consultant: DS					
Consultant: CM					
CUW3710 Crystal Springs/San Andreas Transmission Upgrade	$3,414,355	$151,816,606	$7,604,149	$9,256,193	$172,093,304
Labor	$1,648,086	$2,014,398	$2,065,947	$2,631,848	$8,360,059
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
CUW37801 Crystal Springs Pipeline No. 2 Replacement	$1,310,520	$58,950,172	$923,918	$623,056	$61,807,667
Labor	$968,112	$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	$9,566	$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					
CUW370(	San Andreas Pipeline No. 3 Installation	$1,396,195	$2,795,278	$1,665,570		$5,857,042
	Labor	$594,298	$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 and 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	$16,521	$21,411			$37,932
	Consultant: PL					
	Consultant: ER					
	Consultant: RW					
	Consultant: DS					
	Consultant: CM	$156,935	$754,136			$911,071
SFPUC RW Reg	San Francisco Regional Region	$7,626,564	$5,855,016	$1,291,097	$33,490,259	$48,267,055
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	$1,987,564	$5,018,977
	Other City Departments	$162,735	$640,430	$369,116	$225,478	$1,417,759
	Other Direct Charges	$598,763				$598,763
	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	$248,966	$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
SFPUC RW SW System Wide Region		$10,208,397	$53,461,272	$22,869,643	$35,901,237	$122,441,649
CUW388(	Programmatic EIR (Completed)	$51,954	$168,269			$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
CUW38802	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	$167,258	$26,203			$193,461
	Consultant: RW	$89,352	$19,414			$108,766

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: 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	$126,112	$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	$1,649,886	$3,299,772	$3,299,772	$11,298,418	$19,547,847
	Consultant: CN					
	Consultant: PC	$569,590	$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
	Consultant: MS	$803,716	$1,607,433	$1,607,433	$5,503,850	$9,522,432
CUW39401	Watershed Environmental Improvement Program	$3,898,049	$2,090,004	$12,637,975	$1,003,906	$19,629,935
	Labor	$463,456	$40,422	$4,007	$8,485	$516,370
	Other City Departments	$3,434,593	$2,049,582	$633,968	$995,421	$7,113,565
	Other Direct Charges					
	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	$182,845,805	$49,770,275	$299,412,929
[illegible]	[illegible]	$2,050,286	$9,158,725	$50,810,419	$1,144,534	$62,173,965
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	$1,003,247		$8,605,258
	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(	Sutro 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	$29,636	$66,549	$262,680
	Other Direct Charges					
	Construction			$49,257,842		$49,257,842
	Consultant: PM	$125,436	$6,965	$14,308	$32,125	$178,831
	Consultant: PL					
	Consultant: ER					
	Consultant: RW					
	Consultant: DS	$79,884	$552,744			$632,628

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: CM			$85,836	$192,745	$278,581
LWPS 1K Pump Stations / Tanks		$5,096,017	$14,008,433	$3,436,345	$197,395	$23,739,191
CUW308(	Crocker 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	$868,046	$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 (Complete					
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					

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
	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	$844,718			$1,120,222
	Consultant: PM					
	Consultant: PL					
	Consultant: ER					
	Consultant: RW					
	Consultant: DS					
	Consultant: CM	$163,768	$411,418			$575,186
CUW [illegible]	Pipeline Valves	$669,313	$339,764			$1,009,078
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
CUW308(	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					

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: CM					
CUW311(Sunset Circulation Improvements (Completed)					
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(Noe 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	$129,028				$129,028
CUW315(East / West Transmission Main	$1,053,771				$1,053,771
Labor	$1,053,771				$1,053,771
Other City Departments					
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					
CUW Misc Miscellaneous	$486,603				$486,603
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					
WS WSIP Water Supply	$971,927	$22,265	$128,597,041	$48,426,946	$209,004,092
CUW301(Lake Merced Water Level Restoration	$1,904,986	$523,556	$195,536	$22,919,437	$25,543,515
Labor	$818,081	$86,689	$85,448	$271,575	$1,241,793
Other City Departments	$284,259	$140,669	$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	$360,890	$2,449,459
Other Direct Charges					
Construction			$24,877,545		$24,877,545

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: PM	$105,239	$165,101	$93,486	$302,981	$666,809
Consultant: PL					
Consultant: ER	$226,907	$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	$1,405,408	$2,350,221	$1,743,788	$6,895,281	$12,395,698
Other City Departments	$877,291	$1,430,393	$226,960	$1,600,482	$4,135,126
Other Direct Charges	$58,430				$58,430
Construction			$91,608,000		$91,608,000
Consultant: PM	$355,429	$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	$2,771,693	$458,698		$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	$7,711,938	$10,288,908	$23,910,213
Labor	$412,789	$2,313,311	$3,735,358	$4,665,715	$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		$2,687,067	$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	$4,035,160	$5,878,842
Consultant: CM					
CUW380(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	$46,996,660	$71,403,048	$47,687,831	$90,496,147	$256,583,684
Construction & Pre-Purchase	$3,351,867	$1,895,760,183	$102,171,752	$51,539,001	$2,052,842,804
LOCAL					
Labor	$13,488,806	$13,230,099	$10,261,010	$17,199,933	$54,179,848
Consultants	$4,282,156	$10,150,631	$6,040,409	$11,629,621	$32,102,818
Construction	$4,253,187	$21,391,969	$166,544,387	$20,940,720	$213,130,263
GRAND TOTAL	$66,227,842	$68,321,323	$47,004,145	$66,466,651	$250,020,060
Labor, City Labor, Other Direct Costs	$51,275,817	$81,653,674	$53,728,240	$102,125,769	$288,883,502
Consultant	$7,605,054	$14,917,172,153	$288,716,139	$72,479,721	$2,256,973,086
Construction & Pre-Purchase					

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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

MEMORANDUM

DATE: March 31, 2010

TO: Nathan Cruz, Budget Analyst

FROM: Surinderjeet Bajwa, PMB Manager

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

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.
- SVWTP 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 SVWTP 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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WATER
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MEMORANDUM

DATE: March 31, 2010

TO: Nathan Cruz, Budget Analyst

FROM: Surinderjeet Bajwa, PMB Manager

SUBJECT: Explanation of Cost Changes in Top 5 WSIP Projects

Bay Division Pipleline Reliability Upgrade: Current Cost $600M

• Un-escalated Original Cost	249M
• New Tunneling System Added (explained below) Including adding the escalation and contingencies	+323M
• 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	450M

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	399M

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	359M

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 sever 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	310M

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 valveon 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.

Office of the Mayor
City & County of San Francisco

Gavin Newsom

TO: Angela Calvillo, Clerk of the Board of Supervisors
FROM: Mayor Gavin Newsom
RE: Water Capital Improvement Program Supplemental Appropriation Request - $30,483,021

DATE: March 16, 2010

Dear Madame Clerk:

Attached for introduction to the Board of Supervisors is an Ordinance appropriating $30,483,021 of proceeds from debt and fee revenues for the San Francisco Public Utilities Commission (SFPUC) Water Enterprise's Capital Improvement Program for Fiscal Year 2009-1010 and placing $29,624,138 by project on Controller's reserve subject to SFPUC's and Board and Supervisors' discretionary approval following completion of project-related analysis pursuant to the California Environmental Quality Act (CEQA), where required, and receipt of proceeds of indebtedness and fee revenues.

I request that this item be scheduled in Budget and Finance Committee.

Should you have any questions, please contact Starr Terrell (415) 554-5262.

100338

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