

State of California
Alfred E. Alquist Seismic Safety Commission

Memo

To: Seismic Safety Commission

From: Fred Turner, Staff Structural Engineer
California Seismic Safety Commission
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Sacramento, CA 95833
Phone: (916) 263-0582 Fax: (916)263-0594 Email: Turner@StateSeismic.com

Date: January 4, 2012

Subject: **Update on the Review of Changes to the San Francisco Public Utilities Commission's Water System Improvement Program**

Background

On September 8, 2011, the Seismic Safety Commission received a notice of changes to the San Francisco Public Utilities Commission's (SFPUC's) Water System Improvement Program (WSIP). Chairperson Michael Gardner then appointed Commissioner Emir Macari to work with staff to review the changes to the program and develop the attached draft letter report for the Commission's consideration and possible action. A draft review letter was circulated to the Commission and discussed at our November 10th meeting. According to the state's Water Code Section 73502, the Commission and the Department of Public Health (DPH) had 90 days or until December 6, 2011 to comment on the significance of the changes.

On December 6, the Commission staff requested an extension of its review period of 90 days in order to incorporate additional changes to the draft review including observations from a field trip to major WSIP construction sites scheduled for later in December. That same day, the Department of Public Health issued its attached review of the latest round of delays in the WSIP.

On December 14th, Commissioner Emir Macari, Commissioner and CalEMA Acting Director Michael Dayton, and staff members Dave King and Fred Turner joined representatives from San Francisco's Department of Emergency Management and SFPUC staff on a field trip. The group visited the Sunol Valley Water Treatment Plant, the Alameda Siphons, the east head of the New Irvington Tunnel, the west head of the new Bay Division Pipeline #5 tunnel that will replace pipelines 1 and 2, improvements near the Crystal Springs and San Andreas Reservoirs, and the Harry Tracy Water Treatment Plant. Commissioner Macari and Mr. Turner used this opportunity to consult with SFPUC staff on pending refinements to the Seismic Safety Commission's review of delays to the WSIP.

On December 20th, after further consultations with Bay Area Water Supply and Conservation Agency (BAWSCA) staff and SFPUC staff, Commissioner Macari directed our staff to issue the attached review comments on behalf of the SSC.

Staff Recommendation

The staff recommends that the Commission receive the attached reviews, come prepared to the January 12th hearing to ask Commissioner Macari and staff questions, and listen to Commissioner Macari's summary of the field trip and review. This item requires no action.



State of California—Health and Human Services Agency
California Department of Public Health



RON CHAPMAN, MD, MSPH
Director and State Health Officer

EDMUND G. BROWN JR
Governor

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December 6, 2011

The Honorable Assembly Member Alyson L. Huber, Chair
Joint Legislative Audit Committee
1020 N Street, Room 107
Sacramento, CA 95814

Mr. Ed Harrington, General Manager
San Francisco Public Utilities Commission
1155 Market Street, 11th Floor
San Francisco, CA 94103

Dear Chairperson Huber and General Manager Harrington:

Response to September 1, 2011 Notice of Adopted Changes to the San Francisco Public Utilities Commission (SFPUC) 2005 Water Supply Improvement Program (WSIP)/2002 Capital Improvement Program (CIP)

In accordance with the 2002 Wholesale Regional Water System Security and Reliability Act (AB 1823) and the 2008 amendments (AB 2437), the California Department of Public Health (CDPH) has completed its review of a SFPUC September 1, 2011 Notice of Changes (2011 Change Notice) to its 2005 Water System Improvement Program (WSIP) and 2002 Capital Improvement Program (CIP) for the SFPUC Regional Water System (RWS). These changes were adopted by the SFPUC on July 12, 2011. The 2011 Change Notice was received by CDPH on September 6, 2011.

Section 73502 (d)(3) of the Water Code requires CDPH to comment on changes to the WSIP/CIP within 90 days of notification and provide those comments to the Joint Legislative Audit Committee and the City and County of San Francisco. The 2011 Change Notice is the fourth change notice that CDPH has reviewed. For each change notice, CDPH's review focuses on: 1) the adequacy of the Change Notice to describe the changes and the reasons for the changes; and 2) the significance of the changes with respect to the protection of public health and safety. CDPH review also considers the comments and recommendations issued by: A) the California Seismic Safety Commission (CSSC), and B) the Bay Area Water Supply and Conservation Agency (BAWSCA).

The 2002 CIP included 37 projects for the Regional Water System. The CIP was renamed and readopted as WSIP in 2005. The WSIP added 6 projects, removed and reassigned 7 projects from WSIP to other SFPUC programs, revised the scope of 14 projects, and adopted goals for Levels of Service (LOS). These changes were described at a conceptual level in the 2006 Change Notice.

The 2008 Change Notice reported that two projects were added to WSIP (Program Management and Habitat Reserve Program); four projects were combined into two projects (Advanced Disinfection was combined with Tesla Portal Disinfection; Additional 40 MGD Treated Water Supply was combined with Sunol Valley Water Treatment Plant's (SWWTP) Treated Water Reservoir), and several project schedules were revised for consistency with 96 scheduled system shutdowns. The minimum (winter month) system demand was revised upwards to 229 MGD. The average system demand remained at 300 MGD. The LOS goal for restoration of water service within 24 hours of a major earthquake was revised to deliver 229 MGD to 70% of turnouts within the East/South Bay, Peninsula, and City of San Francisco Regions within the RWS; the LOS goals for these Regions were: 104 MGD, 44 MGD, and 81 MGD, respectively.

The 2009 Change Notice reported that one project (Peninsula Pipelines Seismic Reliability Assessment) was added to the Regional Program; the scope of work for six projects was revised; and the overall Program schedule was extended by one year. See Attachment 1 for a list of changes for each Change Notice.

CDPH's general comments on the 2011 Change Notice focus on Program Management and the Level of Service Goals as they relate to the ability of SFPUC to reliably deliver a safe drinking water supply to its 2.4 million users. Detailed comments on specific projects of concern are listed in Attachment 2.

PROGRAM MANAGEMENT:

Program Schedule:

The 2011 Change Notice reports that many projects are significantly delayed (up to 86 months relative to the 2002 project schedule and up to 42 months relative to the 2005 schedule). The overall Program schedule is lengthened by 8 months and most of the key projects listed in AB1823 are deferred towards the end of the Program schedule. The number of projects scheduled for completion in the final year of the Program is increased from two to eleven; construction spending is planned to increase by \$382 million (from \$254 million to \$636 million) for FY13-14 through FY15-16; and the delay reported in the 2011 Change Notice is additional to the incremental delays reported in 2006, 2008, and 2009. As of June 30, 2011, construction is reported as 34% complete.

Comment:

CDPH notes that each Change Notice has reported additional compression of the WSIP schedule; actual progress continues to lag planned progress for the overall Program and for many projects including the 9 key projects identified in AB 1823; and the 2011 WSIP schedule assumes a substantially higher SFPUC program delivery capacity than has been achieved to date. As such, the adopted 2011 schedule as reported in the 2011 Change Notice seems overly optimistic. Successful completion of the WSIP will require careful integration between project schedules and planned shutdowns; a highly disciplined program management and support structure, and detailed contingency planning to assure continued and reliable operation of the RWS during construction and until the full scope of planned improvements is completed.

Project Level Scope of Work:

The 2011 Change Notice reports that information gathered through the Peninsula Pipelines Seismic Upgrade shows that additional improvements beyond those specified in the WSIP may be necessary to meet LOS goals. A portion of the Peninsula Pipelines Seismic Upgrade scope of work is planned to be completed under WSIP and the remainder is planned to be completed under a Water Enterprise Capital Improvement Program.

Comment:

CDPH supports refinement of project level engineering design concepts to assure that the RWS can be operated, at all times and under all design scenarios, to meet Safe Drinking Water Act requirements.

LEVEL OF SERVICE GOALS: SEISMIC RELIABILITY

The RWS crosses multiple major earthquake faults. A large magnitude earthquake has the potential to severely damage transmission and treatment facilities and leave the RWS without its major water supply. The basic LOS goal established by SFPUC in response to seismic events is to deliver average winter day demand (estimated as 229 MGD in 2030) within 24 hours to 70% of turnouts, and, to deliver average day demand (estimated as 300 MGD in 2030) within 30 days. For an extreme emergency event, SFPUC intends that all delivered water be disinfected, as a minimum, and that delivery of unfiltered water from the local sources (namely, Calaveras and San Antonio Reservoirs, water that is normally treated at Sunol Valley Water Treatment Plant; and Upper Crystal Springs, Lower Crystal Springs, and San Andreas Reservoirs, water that is normally treated at Harry Tracy Water Treatment Plant, may be necessary for fighting fires and meeting sanitary requirements. SFPUC is designing improvements at the Crystal Springs Pump Station and the Harry Tracy Water Treatment Plant to provide reliable, adequately sized emergency disinfection capability. SFPUC has determined that the emergency disinfection capability provided by the Sunol Valley Chloramination Facility is adequate for the delivery of partially treated (disinfected) water supplies. In 2011, the SFPUC initiated a project to define a decision process and procedures to be implemented under a major catastrophic event when SFPUC cannot provide the required treatment to its water supply.

Comment:

CDPH is responsible for assuring that SFPUC operates the RWS to meet the Safe Drinking Water Act requirements before, during, and after a major disaster event. In the event that SFPUC cannot provide the required treatment to its water supply at times of extreme emergency, SFPUC must have a functional operations plan to readily activate and operate emergency disinfection facilities at strategic locations where untreated raw water supply from the local reservoirs can be introduced into the system. The disinfectant dosage should be adequate for maintaining a minimum chlorine residual of 1 mg/L throughout the transmission system. Additionally, the use of disinfected untreated local raw water supply must be accompanied by a Boil Water Notice (BWN) and SFPUC must have a comprehensive public notification plan for timely distribution of the BWN. These emergency measures are necessary to provide a minimal but critical level of public health protection until the damaged transmission and/or treatment facilities are restored to normal operation. In our responses to the 2006, 2008, and 2009 Change Notices, we recommended that SFPUC further refine its LOS goals to include

the provision of reliable and adequately sized disinfection facilities at all locations where raw water could be introduced into the RWS; activation of an emergency notification plan for issuance of a BWN; and a detailed operation plan for flushing, bacteriological monitoring and disinfection of the RWS to restore potable water service as quickly as possible. CDPH further recommended that the plan for emergency use of partially treated local reservoir water and the restoration of potable water service be developed cooperatively and in conjunction with the public water systems served by the RWS. CDPH supports actions by the SFPUC to prepare a functional operations plan for the delivery of disinfected untreated local raw water following a major disaster event and for the restoration of potable water service as quickly as possible for the RWS and the public water systems served by the RWS.

SUMMARY:

Overall, CDPH supports that the capital projects identified in the CIP and WSIP, when completed, will provide significant public health and safety protections. In the interim, CDPH remains concerned that further compression in the Program schedule may result in significant delays to completion of the WSIP. CDPH notes that several WSIP projects are essential to meeting State and Federal drinking water supply regulations for the protection of public health. CDPH concludes that the changes as reported in the 2011 Change Notice do not significantly change the overall impacts to public health and safety. Nonetheless, it is critically important that SFPUC ultimately deliver the public health and safety protections planned under WSIP.

Sincerely,



Leah Walker, Chief
Division of Drinking Water and Environmental Management

Attachments

Assembly Member Alyson L. Huber and
Mr. Ed Harrington
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December 6, 2011

cc: The Honorable Ira Ruskin
Member of the Assembly
State Capitol, Room 4139
Sacramento, CA 95814

Members, Joint Legislative Audit Committee

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ATTACHMENT 1

A. LIST OF CHANGES / REORGANIZATIONS OF PROJECT DESCRIPTION MADE FROM 2002 CIP TO 2005 WSIP

The following 6 projects were added to the CIP in 2005:

- Programmatic EIR
- SFPUC/EBMUD Intertie (Completed with Proposition 50 Funding, June 30, 2008)
- Bay Area Regional Desalination Study
- Baden and San Pedro Valve Lot Improvements
- BDPL No. 4 Slipline PCCP sections assessment
- Watershed Improvement Program.

The following 7 projects were reassigned to the SFPUC Repair and Replacement Program or other SFPUC programs in 2005:

- BDPL 1 and 2 Repairs of Caisson and Pipe Bridge
- Early Intake Reservoir-Resurface Dam
- Early Intake Reservoir-Lower Spillway & Adjacent Weir
- Mountain Tunnel Lining
- Foothill Tunnel Repairs
- Water System Automation
- Sunol Quarry Reservoirs.

The following 14 projects in the CIP were revised in scope in 2005:

- San Joaquin Pipeline System
- Advanced Disinfection
- Additional 40 mgd Treatment Capacity at SVWTP
- Sunol Valley WTP-Treated Water Reservoir
- Calaveras Dam Replacement
- Bay Division PL 5
- SCADA – Phase II
- Pulgas Balancing Reservoir Rehabilitation
- Harry Tracy WTP Long Term Improvements
- Bay Division PL Seismic Upgrade at Hayward Fault
- Capuchino Valve Lot Improvements
- Crystal Springs/San Andreas Transmission System Upgrade
- Recycled Water Projects
- Groundwater Projects.

B. LIST OF CHANGES / REORGANIZATIONS OF PROJECT DESCRIPTION MADE FROM 2006 CHANGE NOTICE TO 2008 CHANGE NOTICE

- Advanced Disinfection combined with Tesla Portal Disinfection Facility
- Additional 40 MGD treatment capacity at SWWTP combined with SWWTP Treated Water Reservoir
- Irvington Tunnel and Alameda Siphon 4 combined into one project in the 2006 Change Notice are separated into 2 projects in the 2008 Change Notice
- BDPL 1 and 2 Repairs of Caisson and Pipe Bridge and BDPL 5 were combined into one project in the 2006 Change Notice. The 2008 Change Notice separates this scope of work into 3 projects
- Rehabilitation of Pulgas Balancing Reservoir, described as one project in the 2006 Change Notice is separated into 4 projects in the 2008 Change Notice
- Phase II SCADA system and security improvements separated into two projects
- San Joaquin Pipeline System separated into two projects
- Groundwater project separated into three projects
- Recycled water project separated into three projects.

C. LIST OF CHANGES / REORGANIZATIONS OF PROJECT DESCRIPTION MADE FROM 2008 CHANGE NOTICE TO 2009 CHANGE NOTICE

The following project was added to the WSIP in 2009:

- Peninsula Pipelines Seismic Upgrade: Geotechnical Evaluation of the San Andreas and Sunset Supply Pipelines.

The following 6 projects were revised in scope in 2009:

- San Joaquin Pipeline System
- Rehabilitation of Existing San Joaquin Pipelines
- Calaveras Dam Replacement
- San Antonio Back-Up Pipeline
- Seismic Upgrade of BDPL Nos 3 & 4
- Harry Tracy WTP Long Term Improvements.

Extended Schedules for the following 12 projects were adopted in 2009

- BDPL Reliability Upgrade (1 month)
- Adit Leak Repair - Crystal Springs/Calaveras (1 month)
- Upper Alameda Creek Filter Gallery (5 months)
- BDPL 4 Condition Assessment - PPCP Sections (9 months)
- University Mound Reservoir – North Basin (9 months)
- Regional Groundwater Storage and Recovery (9 months)
- Alameda Siphon #4 (10 months)
- Lower Crystal Springs Dam Improvements (10 months)
- Crystal Springs Pipeline No. 2 Replacement (15 months)
- San Antonio Backup Pipeline (18 months)
- BDPL Reliability Upgrade – Tunnel (19 months)
- Calaveras Dam Replacement (42 months).

D. LIST OF CHANGES / REORGANIZATIONS OF PROJECT DESCRIPTION MADE FROM 2009 CHANGE NOTICE TO 2011 CHANGE NOTICE

No projects were added to the WSIP for 2011:

The scope of the following 5 projects was modified in 2011:

- Seismic Upgrade of BDPL 3 & 4
- Peninsula Pipelines Seismic Upgrade
- Habitat Restoration Project
- Watershed & Environmental Improvement
- Regional Groundwater Storage and Recovery

The following projects were reassigned to a Water Enterprise CIP in 2011:

- Phase II Peninsula Pipelines Seismic Upgrade
- Lake Merced Water Level Restoration
- San Francisco Groundwater Supply
- San Francisco Westside Recycled Water
- Harding Park Recycled Water
- San Francisco Eastside Recycled Water

Extended Schedules for the following projects were adopted in 2011

- Lawrence Livermore Water Quality Improvements
- San Joaquin Pipeline System
- Tesla Treatment Facility
- New Irvington Tunnel
- Alameda Siphon #4
- Calaveras Dam Replacement
- San Antonio Backup Pipeline
- Sunol WTP Expansion and Treated Water Reservoir
- Upper Alameda Creek Filter Gallery
- Watershed Environmental Improvement Program
- Seismic Upgrade BDPL 3 & 4
- BDPL Reliability Upgrade – Tunnel
- BDPL Reliability Upgrade - Pipelines
- Lower Crystal Springs Dam Improvements
- Crystal Springs Pipeline No. 2 Replacement
- Harry Tracy WTP Long Term Improvements
- Baden and San Pedro Valve Lot Improvements
- University Mound Reservoir – North Basin
- Regional Groundwater Storage and Recovery

ATTACHMENT 2

COMMENTS ON SPECIFIC PROJECTS

1. THE TESLA TREATMENT FACILITY PROJECT

SFPUC operates an unfiltered Hetch Hetchy water system that supplies the San Francisco Regional Water System. In accordance with the Federal Long Term 2 Enhanced Surface Water Treatment Rule (LT2ESWTR), SFPUC must provide additional treatment for *Cryptosporidium* using chlorine dioxide, ozone, or ultraviolet (UV) irradiation. Based on bench scale testing and evaluation of 11 feasible alternatives, SFPUC selected UV irradiation for *Cryptosporidium* inactivation and has constructed a UV Disinfection facility at its Tesla Portal chlorination facility site. This Advanced Disinfection facility at Tesla Portal is essential for compliance with the LT2ESWTR. The compliance date for the SFPUC RWS is April 1, 2012. SFPUC must ensure that the Advanced Disinfection facility at Tesla Portal (including all required commissioning and permitting of the UV reactors and facility) is completed by March 31, 2012.

COMMENT:

The 2011 schedule extends project completion beyond the LT2ESWTR compliance date of April 1, 2012 and may jeopardize LOS goals for water quality. It is critically important to public health protection that the Tesla Treatment Facility be operated in full compliance with Federal and State requirements under the Safe Drinking Water Act on or before April 1, 2012.

2. SAN ANTONIO BACKUP PIPELINE

The San Antonio Backup Pipeline provides the capability of discharging up to 315 mgd of Hetch Hetchy flow that does not meet water quality requirements due to a treatment failure or raw water quality event. The project originally included 11,300 feet of 66 inch diameter pipe extending from the San Antonio Pump Station to San Antonio Reservoir and discharging to a stilling basin at the base of Turner Dam. In 2009 the project scope was revised to reduce the length of 66 inch pipe to 6,410 feet, and to change the discharge location to Sunol quarry, SMP-24, near the intersection of Calaveras Road and San Antonio Creek. The project also includes three tie-in facilities with air gap provisions to prevent cross-connection with the treated water supply and new chemical storage, chemical feed, and water quality monitoring facilities for dechlorination and pH adjustment. The 2011 schedule extends planned completion by 33 months, relative to the 2005 schedule, to March 2015.

COMMENT:

The San Antonio Backup Pipeline provides operational flexibility for the RWS in the event of a treatment failure or raw water quality event. Until project completion and including the initial years of operations for the Tesla Treatment Facility, the RWS will be operating without the benefit of this enhanced margin of safety.

The proposed cross-connection controls provide critically important public health protection for the RWS and its retail customers as required by Sections 7583 through 7605, Title 17, and Chapter 16, *California Waterworks Standards*, Title 22 of the California Code of Regulations. CDPH supports timely completion of this project, consistent with water quality and delivery reliability LOS goals.

3. SUNOL VALLEY WATER TREATMENT PLANT (SWWTP) EXPANSION AND TREATED WATER RESERVOIR

The 2008 Change Notice Report reported that the SWWTP Expansion and Treated Water Reservoir project combined two projects (Additional 40 MGD Treated Water Supply and Treated Water Reservoir (TWR) into one project at the SWWTP. The plant expansion is provided in response to the Delivery Reliability LOS goals to increase the sustainable capacity to 160 MGD during an outage of the Hetch Hetchy supply; and TWR is provided to meet the Water Quality LOS goals in order to respond to a CDPH compliance order. The 2011 schedule extends planned completion by 6 months, relative to the 2005 schedule, to December 2013.

The project includes: a new flocculation/sedimentation basin, a retrofit of the existing filters, and a single 17.5 MG circular TWR together with a new 3.5-MG rectangular chlorine contact tank. Other planned improvements at the SWWTP are: construction of new chemical storage and feed facilities for disinfection using sodium hypochlorite and ammonia, new fluoride facilities, a new filter washwater recovery basin, improvement to the influent chemical mixing system, and a new emergency generator.

COMMENT:

Taking into account all available data, CDPH supports that with the completion of the listed upgrades, SWWTP will reliably provide a sustained capacity of 160 MGD.

4. THE BAY DIVISION PIPELINES – BAY TUNNEL AND BAY DIVISION PIPELINE 5

The CIP identified projects to 1) rehabilitate portions of BDPLs 1 & 2 where they cross San Francisco Bay on a Caisson and Pipe bridge structure; and 2) construct a new BDPL 5. The 2006 Change Notice reported that the new BDPL 5 would be constructed within the BDPL 1 & 2 right of way, and a Bay Tunnel between the Newark and Ravenswood Valve Lots would allow abandonment of the Caisson and Pipe Bridge and the portions BDPLs 1 & 2 between these two valve lots. To assure operability of the system until the new BDPL 5 and Bay Tunnel could be constructed, the SFPUC conducted a condition assessment to determine survivability of pipes, pipe bridge, caisson, and submarine pipeline through the year 2020 and determined that the RWS has sufficient operational options to sustain water deliveries should a failure of the BDPLs 1 & 2 occur.

COMMENT:

This project combines two of the nine key projects listed in AB 1823, and provides critical water supply reliability for the RWS and its retail customers. The 2008 Change Notice reported that the Bay Division Pipeline Reliability Upgrade projects would be completed by March 2013, 11 months earlier than previously planned. The 2009 Change Notice reported that the schedule was extended by 19 months to August 2015. The 2011 schedule further extends planned completion to November 2015. Until the Bay Division Pipeline Reliability Upgrade projects are

completed, significant risks to public health and safety may remain due to the condition of the Caisson and Pipe Bridge. Any actions taken by SFPUC to assure timely completion of these critical projects should be reported in the AB 1823 required *Annual Progress Report on Implementation of WSIP* to the Joint Legislative Audit Committee, the CDPH, and the CSSC.

5. SEISMIC UPGRADE OF BAY DIVISION PIPELINES 3 & 4 & CROSSOVER/ISOLATION VALVES

This project provides a seismically resistant pipeline crossing where the BDPLs 3 & 4 crosses the Hayward Fault near the intersection of Mission Boulevard and Interstate 680 in Fremont. It provides for the construction of two new crossover/isolation valve vaults on either side of the Fault and for strengthening BDPL 3 & 4 between the two vaults. The planned April 2015 completion date is extended by 30 months relative to the 2005 schedule.

COMMENT:

This project is one of the nine key projects listed in AB 1823. It will, when completed, provide critical water supply reliability for the RWS and its retail customers, but the project is significantly delayed relative to the 2005 schedule due to the complex technical issues posed at the BDPL 3 & 4 - Hayward Fault crossing. Until this project is completed, significant risks to public health and safety may remain. Any management, or other, actions taken by SFPUC to assure timely completion of this critical project should be reported in the AB 1823 required *Annual Progress Report on Implementation of WSIP* to the Joint Legislative Audit Committee, the CDPH, and the CSSC.

6. HARRY TRACY WATER TREATMENT PLANT (HTWTP) LONG TERM IMPROVEMENTS

In response to the Seismic Reliability and Delivery Reliability LOS goals and the Water Quality LOS goals, the HTWTP Long-Term Improvements project is planned to achieve a sustained capacity of 140 MGD for at least 60 days, and to provide 140 MGD within 24 hours following a seismic event on the San Andreas Fault. Geotechnical investigations subsequent to the 2008 Change Notice confirmed that the existing slopes adjacent to the existing 6.5 and 8 million gallon (MG) Treated Water Reservoirs may be unstable under a design seismic event. This geotechnical finding resulted in a major change in scope for the HTWTP Long-Term Improvements project to include a new 11 million gallon Treated Water Reservoir and abandonment of the existing Treated Water Reservoirs. The 2011 schedule extends completion to December 2015, an 18 month delay relative to the 2005 schedule.

COMMENT:

CDPH supports SFPUC's determination that completion of the proposed technical improvements should allow HTWTP to achieve a sustained capacity of 140 MGD under most water quality conditions. Progress on this critical project and any action taken by SFPUC to assure timely completion should be reported in the AB 1823 required *Annual Progress Report on Implementation of WSIP* to the Joint Legislative Audit Committee, the CDPH, and the CSSC.

7. REGIONAL GROUNDWATER STORAGE AND RECOVERY

The purpose of this project is to develop a conjunctive use groundwater supply project for the South Westside Basin, San Mateo County. In normal and wet years, the SFPUC will supply supplemental surface water to Daly City, San Bruno, and the California Water Service Company (South San Francisco District) to be used in place of groundwater pumping. In dry years, Daly City, San Bruno, and the California Water Service Company (South San Francisco District) may be supplied with groundwater pumped from 16 groundwater wells to be constructed through this project. The project scope has been revised to include treatment facilities for contaminant removal, pH adjustment, and fluoridation.

COMMENT:

CDPH supports the change in project scope to include treatment facilities. The proposed treatment facilities provide critically important public health protections for the water systems and retail customers served by the groundwater wells to be constructed through this project.



State Of California

ALFRED E. ALQUIST
SEISMIC SAFETY COMMISSION

GOVERNOR EDMUND G. BROWN, JR.



December 20, 2011

The Honorable Assemblyman Ricardo Lara, Chairman
Joint Legislative Audit Committee
1020 N St. Room 107
Sacramento, CA 95814

Dear Assemblyman Lara,

On behalf of the Seismic Safety Commission, I am pleased to provide you the attached comments on the significance of changes to the San Francisco Public Utilities Commission's Water System Improvement Program. The Commission reviewed documents provided by the SFPUC as well as comments from the Bay Area Water Supply & Conservation Agency and the California Department of Public Health.

Should you or your staff have questions regarding information contained in the attached comments, please do not hesitate to contact Fred Turner on the Seismic Safety Commission staff at 916-263-5506.

Sincerely,

Richard McCarthy
Executive Director

cc: Mr. Ed Harrington, SFPUC
Ms. Julie Labonte, PE, SFPUC
Mr. Art Jensen, PE, BAWSCA
Ms. Nicole Sandkulla, PE, BAWSCA
Ms. Leah Walker, PE, Ca Dept of Public Health
Ms. Betty Graham, PE, CA Dept of Public Health

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