



SAN FRANCISCO PLANNING DEPARTMENT

Planning Commission Motion No. 19051

CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA) FINDINGS

HEARING DATE: DECEMBER 19, 2013

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Date: December 12, 2013
Case No.: **2008.1122E**
Project Name: **San Francisco Groundwater Supply Project**
Zoning: P (Public) Zoning District
OS (Open Space) Height and Bulk District
Block/Lot: 7283/004 and 1700/001
Project Sponsor: San Francisco Public Utilities Commission
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ADOPTING FINDINGS UNDER THE CALIFORNIA ENVIRONMENTAL QUALITY ACT, INCLUDING FINDINGS REJECTING ALTERNATIVES AS INFEASIBLE, ADOPTING A STATEMENT OF OVERRIDING CONSIDERATIONS, AND ADOPTING A MITIGATION, MONITORING, AND REPORTING PROGRAM, RELATING TO THE SAN FRANCISCO PUBLIC UTILITY'S PROPOSED PROJECT TO CONSTRUCT AND OPERATE ON THE WEST SIDE OF SAN FRANCISCO A GROUNDWATER PROJECT TO SUPPLY UP TO 4 MILLION GALLONS PER DAY OF GROUNDWATER FROM THE WESTSIDE GROUNDWATER BASIN FOR SAN FRANCISCO'S MUNICIPAL WATER SYSTEM

PREAMBLE

On August 3, 2008, the San Francisco Public Utilities Commission ("SFPUC") submitted an Environmental Evaluation Application to the Planning Department ("Department"), Case No. 2008.1122E, in connection with a project to provide an average of up to 4 million gallons per day ("mgd") of groundwater from the Westside Groundwater Basin to augment San Francisco's municipal water supply. The project, consisting of six groundwater wells, a pipeline distribution system, and a pH adjustment facility and chlorine analyzer, is located on the west side of the City on land owned by the City ("Project").

On December 30, 2009, the Department issued a Notice of Preparation of an Environmental Impact Report ("NOP") for the Project, and, in response to comments received, revised the location of certain project elements and published a revised NOP on March 2, 2011.

On March 13, 2013, the Department published the Draft Environmental Impact Report (“DEIR” or “Draft EIR”) for the Project and provided public notice in a newspaper of general circulation of the availability of the DEIR for public review and comment. The DEIR was available for public comment until April 27, 2013.

The San Francisco Planning Commission (“Planning Commission” or “Commission”) held a public hearing on the DEIR on April 18, 2013, at a regularly scheduled meeting to solicit public comment regarding the DEIR.

The Department prepared responses to comments on environmental issues received at the public hearing and in writing during the public review period for the DEIR, and prepared revisions to the text of the DEIR in response to comments received or based on additional information that became available during the public review period. This material was presented in a Draft Comments and Responses (“C & R”) document, published on October 30, 2013, and distributed to the Planning Commission and all parties who commented on the DEIR, and made available to others upon request at the Department.

A Final Environmental Impact Report (“FEIR”) or “Final EIR”) was prepared by the Department, consisting of the Draft EIR and the C & R document.

Project Environmental Impact Report files have been made available for review by this Commission and the public. These files are available for public review at the Department at 1650 Mission Street, and are part of the record before this Commission.

On December 19, 2013, the Commission reviewed and considered the Final EIR and found that the contents of the report and the procedures through which the Final EIR was prepared, publicized, and reviewed complied with the California Environmental Quality Act (California Public Resources Code section 21000 *et seq.*) (“CEQA”), 14 California Code of Regulations section 15000 *et seq.* (“CEQA Guidelines”), and Chapter 31 of the San Francisco Administrative Code (“Chapter 31”).

The Planning Commission found the Final EIR was adequate, accurate and objective, reflected the independent analysis and judgment of the Department and the Planning Commission, and that the summary of comments and responses contained no significant revisions to the Draft EIR, and approved the Final EIR for the Project in compliance with CEQA, the CEQA Guidelines and Chapter 31.

The Planning Department, Jonas P. Ionin, is the custodian of records for the Planning Department materials, located in the File for Case No. 2008.1122E, at 1650 Mission Street, Fourth Floor, San Francisco, California.

Department staff prepared a Mitigation Monitoring and Reporting Program (“MMRP”) for the Project and these materials were made available to the public and this Commission for this Commission’s review, consideration and action.

On December 19, 2013, the Planning Commission conducted a duly noticed public hearing at a regularly scheduled meeting on Case No. 2008.1122E to consider the approval of the Project. The Commission has heard and considered the testimony presented to it at the public hearing and has further considered

written materials and oral testimony presented on behalf of the SFPUC, the Planning Department staff, and other interested parties.

MOVED, that the Planning Commission hereby adopts findings under the California Environmental Quality Act, including rejecting alternatives as infeasible and adopting a Statement of Overriding Considerations, and adopts the MMRP attached as Exhibit A based on the following findings:

FINDINGS

Having reviewed the materials identified in the Preamble above, and having heard all testimony and arguments, this Commission finds, concludes, and determines as follows:

In determining to approve the San Francisco Groundwater Supply Project ("SFGW Project" or "Project") described in Section I, Project Description, below, the Planning Commission makes and adopts the following findings of fact and decisions regarding mitigation measures and alternatives, and adopts the statement of overriding considerations, based on substantial evidence in the whole record of this proceeding and under the California Environmental Quality Act ("CEQA"), California Public Resources Code Sections 21000 et seq., particularly Sections 21081 and 21081.5, the Guidelines for Implementation of CEQA ("CEQA Guidelines"), 14 California Code of Regulations Sections 15000 et seq., particularly Sections 15091 through 15093, and Chapter 31 of the San Francisco Administrative Code.

This document is organized as follows:

Section I provides a description of the Project proposed for adoption, the environmental review process for the Project (San Francisco Groundwater Supply Project Environmental Impact Report, Planning Department Case No., 2008.1122E, State Clearinghouse No. 2009122075 (the "Final EIR" or "EIR"), the approval actions to be taken and the location of records;

Section II identifies the impacts found not to be significant that do not require mitigation;

Section III identifies potentially significant impacts that can be avoided or reduced to less-than-significant levels through mitigation and describes the disposition of the mitigation measures;

Section IV identifies significant impacts that cannot be avoided or reduced to less-than-significant levels and describes any applicable mitigation measures as well as the disposition of the mitigation measures;

Section V evaluates the different Project alternatives and the economic, legal, social, technological and other considerations that support approval of the project and the rejection of alternatives, or elements thereof, analyzed; and

Section VI presents a statement of overriding considerations setting forth specific reasons in support of the Commission's actions and rejection of the alternatives not incorporated into the Project.

The **Mitigation Monitoring and Reporting Program ("MMRP")** for the mitigation measures that have been proposed for adoption is attached with these findings as **Exhibit A**. The MMRP is required by

CEQA Section 21081.6 and CEQA Guidelines Section 15091. **Exhibit A** provides a table setting forth each mitigation measure listed in the Final Environmental Impact Report for the Project ("Final EIR") that is required to reduce or avoid a significant adverse impact. **Exhibit A** also specifies the agency responsible for implementation of each measure and establishes monitoring actions and a monitoring schedule. The full text of the mitigation measures is set forth in **Exhibit A**.

These findings are based upon substantial evidence in the entire record before the Commission. The references set forth in these findings to certain pages or sections of the Draft Environmental Impact Report ("Draft EIR" or "DEIR") or the Comments and Responses document ("C&R") in the Final EIR are for ease of reference and are not intended to provide an exhaustive list of the evidence relied upon for these findings.

a. Project Description

The Project for which the Commission is approving and adopting these CEQA Findings includes the following:

- Construction of six groundwater production well facilities, including the construction of three new groundwater well facilities south of Golden Gate Park and one new facility in Golden Gate Park as part of Phase 1 of the Project, and, as part of Phase 2 of the Project, the conversion of two existing irrigation well facilities in Golden Gate Park to potable groundwater well facilities, if the SFPUC's Westside Recycled Water Project is also approved and constructed. Each of these facilities would include a groundwater well and a pump station. Disinfection equipment would be included at two of the groundwater well facilities, and pH adjustment equipment would be installed at one well facility.
- Construction of a distribution system (including pipeline and connection points) to connect five of the groundwater well facilities to the SFPUC's existing Sunset Reservoir. The sixth well would connect to the SFPUC's Lake Merced Pump Station (which pumps water to both Sutro and Sunset Reservoirs) and would require a short length of new distribution piping.
- Construction of a pH adjustment facility at Sunset Reservoir within an addition to the existing reservoir building and a chlorine analyzer/sample station at the reservoir.

The Project is proposed to be implemented in two phases: (1) construction and operation of the four new well facilities to supply an annual average of approximately 2.5 to 3.0 mgd of groundwater; and (2) conversion of the two existing irrigation well facilities and operation of the converted irrigation wells to provide an additional annual average of approximately 1.0 to 1.5 mgd of groundwater. Phase 1 includes conversion of previously installed test wells to groundwater supply wells. These test wells are located at the proposed well sites south of Golden Gate Park and in Golden Gate Park at the proposed Central Pump Station well site. The SFPUC also would construct pipelines necessary to deliver groundwater from the Phase 1 well facilities to the existing municipal water supply system at Sunset Reservoir or the Lake Merced Pump Station.

Phase 2 of the Project would be implemented only if the SFPUC approves and constructs the San Francisco Westside Recycled Water Project, which is currently undergoing separate environmental

review. The San Francisco Westside Recycled Water Project proposes to provide recycled water to Golden Gate Park and nearby golf courses. If this Project is approved and constructed, SFPUC would convert two existing groundwater well facilities in Golden Gate Park that now supply groundwater for park irrigation and lake fill to municipal water supply. Phase 2 includes extension of groundwater supply pipelines to the well facilities in Golden Gate Park. The existing irrigation piping system would be retained to serve as a backup irrigation supply for Golden Gate Park.

b. Project Objectives

The three main objectives of the SFGW Project are:

- Expand and diversify the SFPUC’s water supply portfolio to increase system reliability
- Increase the use of local water supply sources
- Reduce dependence on imported surface water

In addition, the Project is part of the SFPUC’s adopted Water System Improvement Program (“WSIP”) adopted by the SFPUC on October 30, 2008 (see Section I.c). The WSIP consists of over 70 local and regional facility improvement projects that would increase the ability of the SFPUC’s water supply system to withstand major seismic events and prolonged droughts and to meet estimated water-purchase requests in the service areas. With the exception of the water supply goal, the overall WSIP goals and objectives are based on a planning horizon through 2030. The water supply goal to meet delivery needs in the SFPUC service area is based on a planning horizon through 2018. The overall goals of the WSIP for the regional water system are to:

- Maintain high-quality water.
- Reduce vulnerability to earthquakes.
- Increase water delivery reliability.
- Meet customer water supply needs.
- Enhance sustainability.
- Achieve a cost-effective, fully operational system.

The Project would help meet WSIP goals by increasing water delivery reliability and helping to meet customer water supply needs. In addition, the Project would provide potable groundwater for emergency supply in the event that an earthquake or other major catastrophe interrupts the delivery of imported surface water supplies from Hetch Hetchy Reservoir and the local watersheds.

c. Environmental Review

On October 30, 2008, the SFPUC approved the Water System Improvement Program (also known as the “Phased WSIP”) with the objective of repairing, replacing, and seismically upgrading the system’s aging pipelines, tunnels, reservoirs, pump stations, and storage tanks (SFPUC, 2008; SFPUC Resolution No. 08-0200). The WSIP improvements span seven counties—Tuolumne, Stanislaus, San Joaquin, Alameda, Santa Clara, San Mateo, and San Francisco (see SFPUC Resolution No. 08-0200).

To address the potential environmental effects of the WSIP, the Planning Department prepared a Program EIR ("PEIR"), which was certified by the Planning Commission on October 30, 2008 (Motion No. 17734). At a project-level of detail, the PEIR evaluated the environmental impacts of the WSIP's water supply strategy and, at a program level of detail, it evaluated the environmental impacts of the WSIP's facility improvement projects. The PEIR contemplated that additional project-level environmental review would be conducted for the facility improvement projects, including the San Francisco Groundwater Supply Project.

In accordance with Sections 15063 and 15082 of the CEQA Guidelines, the Planning Department prepared a NOP and conducted a scoping meeting for the SFGW Project EIR. The San Francisco Planning Department released the NOP on December 30, 2009, and held a public scoping meeting on January 20, 2010, at Golden Gate Senior Center in San Francisco.

The NOP was distributed to the State Clearinghouse, and notices of the availability of the NOP were mailed to approximately 3,700 contacts for local, State, and federal agencies, as well as regional and local interest groups, and property owners and tenants within 300 feet of the proposed Project. The scoping meeting was noticed in the legal classified section of the San Francisco Chronicle. Approximately 30 people attended the meeting.

The Planning Department received six verbal comments on the scope of the EIR at the scoping meeting and 13 organizations and individual submitted written comments. The comment inventory is included in the Scoping Report in Appendix A-1 of the EIR. Subsequent to publishing the NOP, the SFPUC revised the Project to move certain pipeline alignments, eliminate some alternative well facility locations, and clarify certain project elements. The Planning Department published a revised NOP on March 2, 2011, which it distributed to the recipients of the initial NOP and additional recipients in the vicinity of a revised pipeline alignment, posted the revised NOP on the Planning Department website, and noticed it in the San Francisco Chronicle. Seven organizations and individuals submitted written comments in response to the revised NOP during the scoping period, which ended on April 1, 2011. (Appendix A-2 of the EIR.)

The Planning Department then prepared the Draft EIR, which described the Project and the environmental setting, identified potential impacts, presented mitigation measures for impacts found to be significant or potentially significant, and evaluated Project alternatives. The Draft EIR analyzed the impacts associated with each of the key components of the Project, and identified mitigation measures applicable to reduce impacts found to be significant or potentially significant for each key component. It also included an analysis of four alternatives to the Project. In assessing construction and operational impacts of the Project, the EIR considered the impacts of the Project as well as the cumulative impacts associated with the proposed Project in combination with other past, present, and future actions that could affect the same resources.

Each environmental issue presented in the Draft EIR was analyzed with respect to significance criteria that are based on Planning Department guidance regarding the environmental effects to be considered significant. This guidance is, in turn, based on CEQA Guidelines Appendix G, with some modifications.

A Notice of Completion of the DEIR was filed with the State Secretary of Resources via the State Clearinghouse on March 13, 2013.

Notices of Availability of the DEIR and of the date and time of the public hearing were posted near the Project site by the Department on March 13, 2013. The Notice of Availability was also made available at public libraries on San Francisco.

The Draft EIR was circulated to local, state, and federal agencies and to interested organizations and individuals for review and comment on March 13, 2013 for a 45-day public review period, which closed at 5:00 p.m. on April 27, 2013. A public hearing on the Draft EIR to accept written or oral comments was held at the San Francisco Planning Commission meeting at San Francisco City Hall on April 18, 2013. During the public review period, the Department received written comments sent through the mail, fax, or email. A court reporter was present at the public hearing, transcribed the public hearing verbatim, and prepared a written transcript.

The Department then prepared the C&R document, which provided written responses to each comment received on the Draft EIR. The C&R document was published on October 30, 2013 and included copies of all of the comments received on the Draft EIR and individual responses to those comments. The C&R provided additional, updated information and clarification on issues raised by commenters, as well as SFPUC and Planning Department staff-initiated text changes to address project updates. The Final EIR, which includes the Draft EIR and the C&R document, and all of the supporting information, provided augmented and updated information on many issues presented in the Draft EIR, including (but not limited to) the following topics: project description, land use, aesthetics, cultural and paleontological resources, transportation and circulation, noise, air quality, recreation, utilities and service systems, biological resources, hydrology and water quality, and Project alternatives. This augmentation and update of information in the Draft EIR did not constitute new information or significance that altered any of the conclusions of the EIR.

On December 19, 2013, the Planning Commission reviewed and considered the Final EIR, certified said Final EIR as complete, and found that the contents of said Final EIR and the procedures through which the Final EIR was prepared, publicized, and reviewed complied with the provisions of CEQA, the CEQA Guidelines, and Chapter 31.

The Planning Commission determined that none of the factors are present that would necessitate recirculation of the Final EIR under CEQA Guidelines Section 15088.5. The Final EIR contains no information revealing (1) any new significant environmental impact that would result from the Project or from a new mitigation measure proposed to be implemented, (2) any substantial increase in the severity of a previously identified environmental impact, (3) any feasible Project alternative or mitigation measure considerably different from others previously analyzed that would clearly lessen the environmental impacts of the Project, but that was rejected by the Project's proponents, or (4) that the Draft EIR was so

fundamentally and basically inadequate and conclusory in nature that meaningful public review and comment were precluded.

The Commission finds that the Project proposed for approval is within the scope of the project fully analyzed in the Final EIR. No new impacts have been identified that were not analyzed in the Final EIR.

d. Approval Actions

- Certifies the Final EIR.
- Determines consistency with the General Plan .
- Issues a Coastal Development Permit.

- Approves the project and authorizes the General Manager or his designee to obtain necessary permits, consents, agreements and approvals, including entering into an agreement with the San Francisco Recreation and Parks Commission ("SFRPD") for construction in and use of SFRPD-managed land for groundwater well facilities and pipelines.

- Approves an agreement with SFPUC for construction, operation and maintenance of well facility structures and pipelines on park lands.

- Considers any appeal of the Planning Commission's certification of the Final EIR.
- Approves an allocation of bond monies to pay for implementation of the project, and approves the well facility structures in Golden Gate Park.

- Approves the exterior design of structures on City property.

Implementation of the Project will involve consultation with or required approvals by other local, state, and federal regulatory agencies, including (but not limited to) the following:

- Other San Francisco City entities, including the Department of Public Health, the Department of Public Works and the San Francisco Municipal Transportation Agency
- California Department of Fish and Wildlife
- California Department of Public Health, Drinking Water Field Operations Branch
- California Coastal Commission
- California Department of Toxic Substances Control, if contaminated soil is encountered

To the extent that the identified mitigation measures require consultation or approval by these other agencies, this Commission urges these agencies to assist in implementing, coordinating, or approving the mitigation measures, as appropriate to the particular measure.

e. Contents and Location of Records

The record upon which all findings and determinations related to the Project are based ("Record of Proceedings") includes the following:

- The Draft EIR and all documents referenced in or relied upon by the EIR. (The references in these findings to the EIR or Final EIR include both the Draft EIR and the C & R document.)
- The PEIR for the Phased WSIP Variant, which is incorporated by reference in the SFGW Project EIR.
- All information (including written evidence and testimony) provided by City staff to the Planning Commission and the SFPUC relating to the EIR, the Project, and the alternatives set forth in the EIR.
- All information (including written evidence and testimony) presented to the Planning Commission and the SFPUC by the environmental consultant and sub-consultants who prepared the EIR or that was incorporated into reports presented to the Commission and the SFPUC.
- All information presented at any public hearing or workshop related to the Project and the EIR.
- The Mitigation Monitoring and Reporting Program.
- All other documents available to the Commission, the SFPUC and the public, comprising the administrative record pursuant to Public Resources Code Section 21167.6(e).

The Commission has relied on all of the information listed above in reaching its decision on the Project, even if not every document was formally presented to the Commission. Without exception, these documents fall into one of two categories. Many documents reflect prior planning or legislative decisions that the Commission was aware of in approving the Project. Other documents influenced the expert advice provided to Planning Department staff or consultants. For these reasons, such documents form part of the underlying factual basis for the Commission's decisions relating to the adoption of the Project.

The public hearing transcript, a copy of all letters regarding the Draft EIR received during the public review period, the administrative record, background documentation for the Final EIR, and materials related to the Planning Commission's adoption of these findings and its approval of the Project are available at the San Francisco Planning Department, 1650 Mission Street, San Francisco. **Jonas P. Ionin**, Commission Secretary, is the Custodian of Records for these Planning Department documents and materials. The SFPUC is the custodian of Project documents and materials contained in SFPUC files, SFPUC Project No. CUW30102 in the Bureau of Environmental Management, San Francisco Public Utilities Commission, 525 Golden Gate Avenue, San Francisco, California 94102. The Custodian of Records is **Yin Lan Zhang**. All files have been available to the Commission and the public for review in considering these findings and whether to approve the Project.

f. Findings about Significant Environmental Impacts and Mitigation Measures

The following Sections II, III, and IV set forth the Commission's findings about the Final EIR's determinations regarding significant environmental impacts and the mitigation measures proposed to address them. These findings provide the written analysis and conclusions of the Commission regarding the environmental impacts of the Project and the mitigation measures included as part of the Final EIR and adopted by the Commission as part of the Project. To avoid duplication and redundancy, and because the Commission agrees with, and hereby adopts, the conclusions in the Final EIR, these findings

will not repeat the analysis and conclusions in the Final EIR but instead incorporate them by reference and rely upon them as substantial evidence supporting these findings.

In making these findings, the Commission has considered the opinions of City staff and experts, other agencies, and members of the public. The Commission finds that (i) the determination of significance thresholds is a judgment decision within the discretion of the City; (ii) the significance thresholds used in the EIR are supported by substantial evidence in the record, including the expert opinion of the EIR preparers and City staff; and (iii) the significance thresholds used in the EIR provide reasonable and appropriate means of assessing the significance of the adverse environmental effects of the Project. Thus, although, as a legal matter, the Commission is not bound by the significance determinations in the EIR (see Public Resources Code, Section 21082.2, subdivision (e)), the Commission finds them persuasive and hereby adopts them as its own.

These findings do not attempt to describe the full analysis of each environmental impact contained in the Final EIR. Instead, a full explanation of these environmental findings and conclusions can be found in the Final EIR, and these findings hereby incorporate by reference the discussion and analysis in the Final EIR supporting the determination regarding the project impact and mitigation measures designed to address those impacts. In making these findings, the Commission ratifies, adopts and incorporates in these findings the determinations and conclusions of the Final EIR relating to environmental impacts and mitigation measures, except to the extent any such determinations and conclusions are specifically and expressly modified by these findings.

As set forth below, the Commission adopts and incorporates all of the mitigation measures set forth in the Final EIR and the attached MMRP to substantially lessen or avoid the potentially significant and significant impacts of the Project. The Commission intends to adopt each of the mitigation measures proposed in the Final EIR. Accordingly, in the event a mitigation measure recommended in the Final EIR has inadvertently been omitted in these findings or the MMRP, such mitigation measure is hereby adopted and incorporated in the findings below by reference. In addition, in the event the language describing a mitigation measure set forth in these findings or the MMRP fails to accurately reflect the mitigation measures in the Final EIR due to a clerical error, the language of the policies and implementation measures as set forth in the Final EIR shall control. The impact numbers and mitigation measure numbers used in these findings reflect the information contained in the Final EIR.

In Sections II, III and IV below, the same findings are made for a category of environmental impacts and mitigation measures. Rather than repeat the identical finding dozens of times to address each and every significant effect and mitigation measure, the initial finding obviates the need for such repetition because in no instance is the Commission rejecting the conclusions of the Final EIR or the mitigation measures recommended in the Final EIR for the Project.

II. LESS-THAN-SIGNIFICANT IMPACTS THAT DO NOT REQUIRE MITIGATION

Under CEQA, no mitigation measures are required for impacts that are less than significant (Public Resources Code, Section 21002; CEQA Guidelines, Sections 15126.4, subdivision (a)(3), 15091). Based on the evidence in the whole record of this proceeding, the Commission finds that the implementation of the

Project will result in no impacts in the following areas: wind and shadow; public services; and agricultural resources. These subjects are not further discussed in these findings. The Commission further finds that implementation of the Project will not result in any significant impacts in the following areas and that these impact areas therefore do not require mitigation:

Land Use

- **Impact LU-1:** Project operation would not result in substantial long-term or permanent impacts on the existing character of the vicinity.
- **Impact C-LU:** Implementation of the proposed Project would not result in a cumulatively considerable contribution to a significant cumulative impact on the existing character of the vicinity.

Aesthetics

- **Impact AE-1:** Temporary construction-related disturbances would not have an adverse effect on a scenic vista, scenic resource, or the existing visual character or quality of the site and its surroundings.
- **Impact AE-2:** Temporary construction would not result in substantial sources of light or glare and would not adversely affect day or nighttime views in the area.
- **Impact AE-3:** The proposed Project would not have an adverse effect on a scenic vista.
- **Impact AE-5:** The proposed Project would not create a new source of substantial light or glare that would adversely affect day or nighttime views in the area.

Cultural Resources

- **Impact CP-1:** The proposed Project would not cause a substantial adverse change in the significance of a historical resource as defined in CEQA Guidelines Section 15064.5, including those resources listed in Article 10 or Article 11 of the San Francisco Planning Code.
- **Impact CP-3:** The proposed Project would not directly or indirectly destroy a unique paleontological resource or site or unique geological feature.

Transportation and Circulation

- **Impact TR-1:** Closure of travel lanes during project construction would temporarily reduce roadway capacity and increase traffic delays on area roadways, causing temporary and intermittent conflicts with all modes of travel, but the effects would be of short duration and limited in magnitude.
- **Impact TR-2:** Project construction would cause temporary increases in traffic volumes on area roadways, but would not cause substantial conflicts with the performance of the circulation system.
- **Impact TR-3:** Project construction would not substantially limit access to adjacent roadways and land uses due to construction within roadways.

- **Impact TR-4:** Project construction would not substantially impair access to alternative transportation facilities (public transit, bicycle, or pedestrian facilities), although it could temporarily decrease the performance of such facilities.
- **Impact TR-5:** Project operation and maintenance activities would cause some increases in traffic volumes on area roadways, but would not substantially alter transportation conditions and would not cause conflicts with alternative travel modes, including vehicles, emergency vehicles, transit, pedestrians, and bicycle traffic.
- **Impact C-TR:** The proposed Project, in combination with past, present, and reasonably foreseeable future projects, would not substantially contribute to cumulative traffic increases on local and regional roads.

Noise and Vibration

- **Impact NO-2:** Construction activities would not result in substantial groundborne vibration or groundborne noise levels.
- **Impact NO-3:** Project operation would not result in the exposure of persons to, or generation of, noise levels in excess of standards or a substantial increase in ambient noise levels in the project vicinity.
- **Impact C-NO:** Construction and operation of the proposed Project, in combination with other past, present and reasonably foreseeable future projects in the project vicinity, would not result in a cumulatively considerable contribution to significant noise and vibration impacts.

Air Quality

- **Impact AQ-1:** Project construction activities would not generate emissions of criteria pollutants and precursors such that a violation of air quality standards and substantial contribution to an existing air quality violation would occur.
- **Impact AQ-2:** Project construction would not result in substantial exposure of sensitive receptors to pollutant concentrations.
- **Impact AQ-3:** Project construction activities would not result in the creation of objectionable odors that affect a substantial number of people.
- **Impact AQ-4:** Project operation would generate emissions of criteria pollutants and precursors, but would not violate air quality standards or contribute substantially to an existing air quality violation.
- **Impact AQ-5:** Project operation would expose sensitive receptors to pollutant concentrations, but concentrations would not be considered substantial.
- **Impact AQ-6:** Project operation could create objectionable odors, but the odors would not affect a substantial number of people.

- **Impact C-AQ:** Construction and operation of the proposed Project could result in cumulative air quality impacts associated with criteria pollutant and precursor emissions and health risks, but the project's contribution would not be cumulatively considerable.

Greenhouse Gas Emissions

- **Impact C-GG-1:** The proposed Project would generate greenhouse gas emissions during Project construction and operation, but not at levels that would result in a significant impact on the environment or conflict with any policy, plan, or regulation adopted for the purpose of reducing greenhouse gas emissions.

Recreation

- **Impact RE-1:** The proposed Project's construction would not increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facilities would occur or be accelerated or otherwise result in substantial degradation of existing recreational resources.
- **Impact RE-2:** The proposed Project's operation would not increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facilities would occur or be accelerated.

Utilities and Service Systems

- **Impact UT-1:** Project construction would not result in a substantial adverse effect related to landfill capacity.
- **Impact UT-2:** Project construction would not result in a substantial adverse effect related to compliance with federal, State, and local statutes and regulations pertaining to solid waste.
- **Impact UT-5:** Project operation would not result in the construction or expansion of wastewater treatment facilities, exceed wastewater treatment requirements, or result in a determination by the wastewater treatment provider that there is insufficient capacity to serve the project.
- **Impact UT-6:** Project operation would not require more water supply than would be available through existing entitlements and resources, nor would it require new or expanded water supply resources or entitlements.

Biological Resources

- **Impact BI-2:** Construction of the proposed Project would not adversely affect federally protected wetlands.
- **Impact BI-4:** The proposed project's facility siting and maintenance would not result in substantial biological resources impacts.
- **Impact BI-5:** Operation of the proposed Project would not adversely affect species identified as candidate, sensitive, or special-status species in local or regional plans, policies, or

regulations, or by the California Department of Fish and Wildlife ("CDFW") or the United States Fish and Wildlife Service ("USFWS").

Geology and Soils

- **Impact GE-1:** The proposed Project is not located on a geologic unit that could become unstable as a result of project construction.
- **Impact GE-2:** The proposed Project would not result in substantial soil erosion or the loss of topsoil during construction.
- **Impact GE-3:** The proposed Project would not expose people or structures to substantial adverse effects related to the risk of property loss, injury, or death due to seismically induced groundshaking.
- **Impact GE-4:** The proposed Project would not expose people or structures to substantial adverse effects related to the risk of property loss, injury, or death due to seismically induced ground failure, including liquefaction, lateral spreading, and settlement.
- **Impact GE-5:** The proposed Project would not create substantial risks to life or property due to expansive or corrosive soils.
- **Impact C-GE:** Project implementation would not result in cumulatively considerable impacts related to geology, soils, and seismicity.

Hydrology and Water Quality

- **Impact HY-2:** Project operation would not violate any water quality standards or waste discharge requirements or otherwise degrade water quality.
- **Impact HY-3:** The proposed Project would not substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner that would result in substantial erosion, siltation, or flooding on or off the site.
- **Impact HY-4:** Project operation would not create or contribute runoff water that would exceed the capacity of existing or planned stormwater drainage systems or provide an additional source of polluted runoff.
- **Impact HY-5:** The proposed Project would not result in adverse effects related to the placement of structures within a 100-year flood hazard area.
- **Impact HY-6:** Project operation would not decrease the production rate of existing nearby wells as a result of localized groundwater drawdown within the Westside Groundwater Basin such that existing or planned land use(s) would not be supported.
- **Impact HY-7:** Project operation would not result in substantial land subsidence due to decreased groundwater levels in the Westside Groundwater Basin.

- **Impact HY-10:** The Project operation would not have a substantial adverse effect on water quality in Pine Lake.
- **Impact HY-12:** Project operation would not have a substantial adverse effect on groundwater depletion in the Westside Groundwater Basin.
- **Impact C-HY-1:** Facility construction, siting, operation, and maintenance, in combination with past, present, and reasonably foreseeable future projects in the site vicinity, would not adversely affect hydrology and water quality.
- **Impact C-HY-2:** Operation of the proposed Project, in combination with past, present, and reasonably foreseeable future projects, would not have a substantial adverse effect related to well interference.
- **Impact C-HY-3:** Operation of the proposed Project would not result in a cumulatively considerable contribution to cumulative impacts related to subsidence.
- **Impact C-HY-6:** Operation of the proposed Project would not result in a cumulatively considerable contribution to cumulative impacts related to water quality standards.
- **Impact C-HY-7:** Operation of the proposed Project would not result in a cumulatively considerable contribution to cumulative impacts related to groundwater depletion.

Hazards and Hazardous Materials

- **Impact HZ-1:** Project construction would not result in a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials or result in reasonably foreseeable upset and accident conditions involving the release of hazardous construction materials to the environment.
- **Impact HZ-3:** Project construction would not cause hazardous emissions or handle acutely hazardous materials within ¼ mile of a school.
- **Impact HZ-4:** Project construction would not impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan.
- **Impact HZ-5:** Project operation would not create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials.
- **Impact HZ-6:** Project operation would not cause hazardous emissions or handle acutely hazardous materials within ¼ mile of a school.

Mineral and Energy Resources

- **Impact ME-1:** Project construction would not result in substantial adverse effects related to the use of large amounts of fuel or energy, or the use of these resources in a wasteful manner.

- **Impact ME-2:** Project operation would not result in substantial adverse effects related to the long-term use of large amounts of fuel or energy, or the use of these resources in a wasteful manner.
- **Impact C-ME:** Project implementation would not result in cumulatively considerable impacts related to mineral and energy resources.

III. POTENTIALLY SIGNIFICANT OR SIGNIFICANT IMPACTS THAT CAN BE AVOIDED OR REDUCED TO A LESS-THAN-SIGNIFICANT LEVEL THROUGH MITIGATION AND THE DISPOSITION OF THE MITIGATION MEASURES

CEQA requires agencies to adopt mitigation measures that would avoid or substantially lessen a project's identified significant impacts or potentially significant impacts if such measures are feasible (unless mitigation to such levels is achieved through adoption of a project alternative). The findings in this Section III and in Section IV concern mitigation measures set forth in the EIR. These findings discuss mitigation measures as proposed in the EIR and recommended for adoption by the SFPUC, which can be implemented by the SFPUC. The mitigation measures proposed for adoption in this section and referenced following each Project impact discussed in this Section III, are the same as the mitigation measures identified in the Final EIR for the project. The full text of each mitigation measure listed in this section is contained in the Final EIR and in Attachment B, the MMRP. The Commission finds that for the reasons set forth in the Final EIR and elsewhere in the record, the impacts identified in this section would be reduced to a less-than-significant level through implementation of the mitigation measures identified in this section.

Project Impacts

Impact AE-4: The project would have a substantial adverse effect on scenic resources or the existing visual character or quality of the site and its surroundings. (Less than Significant with Mitigation)

As a result of project operations, Lake Merced lake levels are generally expected to be approximately 10 feet lower than water levels expected without the project. Reduced water levels could detract from the scenic quality of the lake as viewed from the pedestrian path around the perimeter of the lake, adjacent roadways, trails, picnic areas, docks, and golf courses. The lowest estimated lake level, predicted at the end of the design drought, is approximately -10 feet City Datum, which would be below the bottom of Impound Lake at -6 feet City Datum and near the bottom of East Lake at -11 feet City Datum. Under the proposed Project, at the end of the design drought, East Lake would likely nearly dry-up and Impound Lake would likely dry up altogether, which would reduce the visual quality of that lake as seen from the paved path around the lake perimeter and the picnic areas on John Muir Drive and Lake Merced Boulevard. While Lake Merced conditions would be reduced naturally (under modeled existing conditions during the design drought), the proposed project's pumping would exacerbate such conditions at Lake Merced, a scenic resource, and the visual character and quality of Lake Merced area would therefore be degraded substantially. Thus, operation of the proposed Project could result in a *significant* aesthetic impact.

- *Mitigation Measure M-HY-9, Lake Level Management for Lake Merced*

Impact CP-2a: The proposed project would potentially cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5. (Less than Significant with Mitigation)

Based on the results of the background research, geoarchaeological assessment, and survey results, there is generally, throughout the CEQA Area of Potential Effect, a low potential for uncovering archaeological resources during project construction. However, it is possible that previously unrecorded and buried (or otherwise obscured) archaeological deposits could be discovered during project construction. Excavation, grading, and the movement of heavy construction vehicles and equipment could expose and cause impacts on unknown archaeological resources, which would be a *significant* impact.

- *Mitigation Measure M-CP-2a, Accidental Discovery of Archaeological Resources*

Impact CP-2b: Construction of the proposed Lake Merced well facility would potentially cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5. (Less than Significant with Mitigation)

Ground-disturbing activities associated with the Lake Merced well facility include excavation with recompaction to a depth of 5 to 8 feet throughout most of the site. Some areas could require vibrocompaction/stone columns (up to a depth of 24 feet) to stabilize potentially liquefiable soil. In consultation with San Francisco Planning Department's Environmental Review Officer, it has been determined that based on the geologic profile of the Lake Merced well facility and archaeological site distribution in the Lake Merced vicinity, ground-disturbing and -modifying activities associated with the proposed Project may adversely impact legally-significant prehistoric deposits, a *significant* impact.

- *Mitigation Measure M-CP-2b, Archeological Testing Program*

Impact CP-4: The proposed project would potentially disturb human remains, including those interred outside of formal cemeteries. (Less than Significant with Mitigation)

Based on the background research, geoarchaeological assessment, and survey results, there is a low potential for project construction to uncover human remains. Although no known human burials have been identified within the project site, the possibility of encountering human remains cannot be entirely discounted. Earthmoving activities associated with project construction could result in direct impacts on previously undiscovered human remains. Therefore, the disturbance to human remains could be a *potentially significant* impact.

- *Mitigation Measure M-CP-4, Accidental Discovery of Human Remains*

Impact CP-5: The proposed project would potentially cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5. (Less than Significant with Mitigation)

Under existing conditions projected to occur with Project groundwater pumping, the estimated mean monthly Lake Merced lake level would be reduced and more of the lakebed would be exposed. One archaeological resource has been identified along the shore of Lake Merced. The site consists of an undetermined area of shell midden with one isolated milling stone tool. Reduced lake levels resulting from Project pumping would not impact the known archaeological resource (the unnumbered Lake Merced site). However, reduced lake levels from Project pumping could result in the exposure of and damage to currently undiscovered archaeological resources, which would be a *significant* impact.

- *Mitigation Measure M-HY-9, Lake Level Management for Lake Merced*

Impact NO-1: The proposed project would result in the exposure of persons to, or generation of, noise levels in excess of standards established in the local general plan or noise ordinance and therefore result in a substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project. (Less than Significant with Mitigation)

Construction-related noise associated with the South Sunset, West Sunset, and North Lake well facilities, the Sunset Reservoir facilities, and pipeline segments south of Golden Gate Park would result in a noticeable but temporary increase in ambient noise levels (a significant impact). Noise from some construction equipment could exceed limits established in the San Francisco Noise Ordinance, a *significant* impact.

- *Mitigation Measure M-NO-1, Administrative and Source Controls*

Impact RE-3: The proposed project would physically degrade existing recreational resources. (Less than Significant with Mitigation)

Even during high precipitation periods when overall lake levels and lake acreages are predicted to be much less under Project conditions than under modeled existing conditions, the available surface areas of North and South Lakes are not predicted to decrease substantially with operation of the Project and floating and stationary docks would not be disconnected from the lake water surface at the predicted surface acreages. However, groundwater pumping during a high precipitation period is predicted to result in a substantial reduction in the overall size of Impound Lake, a recreation resource, and the shallow southern end of this lake would be entirely dewatered as a result. If such conditions occurred, the proposed Project would result in a substantial degradation of this recreational resource, as compared to modeled existing conditions, a *significant* impact.

- *Mitigation Measure M-HY-9, Lake Level Management for Lake Merced*

Impact UT-3: Project construction would potentially result in a substantial adverse effect related to disruption of utility operations or accidental damage to existing utilities. (Less than Significant with Mitigation)

Construction activities for the proposed Project could result in damage to or interference with existing water, sewer, storm drain, natural gas, electricity, and/or telecommunication lines. A majority of the

project facilities are located along transportation rights-of-way, which frequently serve as utility corridors. Although the exact location of underground utilities is not known at this time, utility lines of varying sizes are located along and across several of the groundwater pipeline routes and at the proposed well facility sites. Accidental rupture of or damage to these utility lines during project construction could temporarily disrupt utility services and, in the case of high-priority utilities, could result in significant safety hazards for construction workers and the public. For the above reasons, impacts on existing utilities and utility services during Project construction could be *potentially significant*.

- *Mitigation Measure M-UT-3a, Preconstruction Utility Identification and Coordination;*
- *Mitigation Measure M-UT-3b, Protection of Other Utilities during Construction*
- *Mitigation Measure M-UT-3c, Safeguard Employees from Potential Accidents Related to Underground Utilities*
- *Mitigation Measure M-UT-3d, Notify San Francisco Fire Department*
- *Mitigation Measure M-UT-3e, Emergency Response Plan and Notification*
- *Mitigation Measure M-UT-3f, Ensure Prompt Reconnection of Utilities*
- *Mitigation Measure M-UT-3g, Coordinate Final Construction Plans with Affected Utilities*

Impact UT-4: Project construction would potentially result in a substantial adverse effect related to the relocation of local utilities. (Less than Significant with Mitigation)

The proposed alignments for the SFGW Project pipelines would cross beneath existing utilities at several locations, including but not limited to the MUNI light rail crossings. The SFGW Project does not propose to relocate utilities, but it is possible that relocation would be necessary once the locations and characteristics of any potentially conflicting utilities are confirmed. Consequently, installation of the project pipelines could require the temporary relocation of utility lines that are owned and operated by other utility companies. For the above reasons, impacts related to utility relocation could be *potentially significant*.

- *Mitigation Measure M-UT-3a, Preconstruction Utility Identification and Coordination*
- *Mitigation Measure M-UT-3g, Coordinate Final Construction Plans with Affected Utilities*

Impact BI-1: Construction of the proposed project would potentially adversely affect species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the CDFW or USFWS. (Less than Significant with Mitigation)

The overall potential of the Project area to support special-status plant species is considered extremely low, based on the lack of native plants and native plant communities, and on the high degree of disturbance associated with ongoing and past uses of the Project construction areas. All of the proposed

facility sites are located in areas that experience recurrent disturbance associated with human use of the areas and surrounding vicinity. Several special-status animals might use habitat in certain parts of the project area or vicinity for roosting, foraging, or breeding purposes, including California red-legged frog, western pond turtle, Yuma myotis, western red bat, and monarch butterfly. In addition, there are a number of native resident and migratory bird species protected under federal and State legislation with the potential to use trees, shrubs, and other habitats as well as buildings within the Project area for nesting and foraging.

Due to the proximity of aquatic habitats to the Lake Merced, North Lake, and Central Pump Station well facility sites, western pond turtle and California red-legged frog could utilize these Project well facility sites for dispersal or migratory movement to other aquatic features in the immediate area. Because Project construction at these sites could adversely affect these species, should they be present, by direct mortality or temporary or permanent upland habitat removal, which would be a *significant* impact on these biological resources.

Vegetation clearing (including tree removal), irrigation well facility demolition, and exterior construction activities at the Sunset Reservoir Chlorine Station could result in direct mortality of special-status bats at the well facilities and Sunset Reservoir. Direct mortality of special-status bats would be a *significant* impact.

Non-native trees in Golden Gate Park, such as eucalyptus and Monterey cypress, could be used for migrating monarch butterflies between October and March. While none of the recorded overwintering monarch locations in Golden Gate Park would be affected by the proposed project, there is the potential for this species to utilize trees within the Golden Gate Park project sites. Vegetation clearing, including tree removal, could destroy or impact overwintering sites in these areas. The loss of an active overwintering site would be a *significant* impact.

- *Mitigation Measure M-BI-1a, Avoidance and Minimization Measures for California Red-Legged Frog and Western Pond Turtle*
- *Mitigation Measure M-BI-1b, Avoidance and Minimization Measures for Special-Status Bats*
- *Mitigation Measure M-BI-1c, Avoidance and Minimization Measures for Monarch Butterfly*

Impact BI-3: Construction of the proposed project would conflict with applicable local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance. (Less than Significant with Mitigation)

As designed, the SFGW Project would require the removal of trees that are under the jurisdiction of the SFRPD. Of the 150 trees and shrubs surveyed in the project area, 6 trees would be removed, while the remainder of the trees surveyed would be retained. All of the trees to be removed are not native to the San Francisco area. SFRPD must give permission for any trimming or removal of trees in the project area. In addition, the *Golden Gate Park Master Plan* states that individual large trees should be replaced in kind with similar species. Consequently, the removal of trees within SFRPD-managed lands without

replacement in-kind, would conflict with applicable local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance, resulting in a *significant* impact.

- *Mitigation Measure M-BI-3, Plant Replacement Trees*

Impact BI-6: Operation of the proposed project would potentially adversely affect sensitive habitat types associated with Lake Merced. (Less than Significant with Mitigation)

The proposed Project is predicted to result in water levels that are approximately 7 to 10 feet lower than levels expected under the modeled existing conditions for most of the modeled time period. During drought periods, water levels expected as a result of operating the project are predicted to fall as low as -10.4 feet City Datum, or 9.6 feet lower than the predicted minimum under the modeled existing conditions. Decreasing water levels could substantially reduce aquatic habitat and degrade water quality, thereby negatively affecting fish populations through impacts on fish habitat-related beneficial uses, which could be a *significant* impact.

- *Mitigation Measure M-HY-9, Lake Level Management for Lake Merced*

Impact BI-7: Operation of the proposed project would adversely affect wetland habitats and other waters of the United States associated with Lake Merced. (Less than Significant with Mitigation)

Simulated Lake Merced lake levels under the project and cumulative scenarios were compared to the results of the modeled existing conditions scenario to assess whether wetland impacts would occur. The predicted vegetation response to declining water levels would differ depending on the water level without the project for a given period, which changes annually due to natural hydrological variation that would remain independent of project operation. Modeling results show that the proposed Project would alter lake levels in a manner that would result in net loss of wetlands, a *potentially significant* impact.

- *Mitigation Measure M-HY-9, Lake Level Management for Lake Merced*

Impact HY-1: Project construction would possibly violate water quality standards and waste discharge requirements or otherwise substantially degrade water quality. (Less than Significant with Mitigation)

The Lake Merced well facility would be constructed within approximately 100 feet of Lake Merced in an area served by the separate storm sewer system at the lake. While the provisions of Article 4.1 of the San Francisco Public Works Code would apply if groundwater produced during construction of this well facility were discharged to the sewer system, groundwater could also be discharged into Lake Merced. If the water were discharged to Lake Merced, these discharges could degrade water quality, resulting in a *potentially significant* water quality impact.

- *Mitigation Measure M-HY-1, Implement Groundwater Dewatering BMPs at Lake Merced Well Facility*

Impact HY-8: Project operations would possibly result in seawater intrusion due to decreased groundwater levels in the Westside Groundwater Basin. (Less than Significant with Mitigation)

Because operation of the SFGW Project would increase groundwater withdrawals from the groundwater basin and the project wells are located relatively close to the Pacific Coast, there is the potential for seawater intrusion in the Shallow Aquifer. If seawater intrusion into the Shallow Aquifer were to occur, intrusion into the Primary Production Aquifer could also occur where these two aquifers are in hydraulic communication. Increased pumping in the North Westside Groundwater Basin under both Phases 1 and 2 of the Project could result in the landward migration of the seawater/freshwater interface to a greater degree than would occur under existing conditions and may not be detected with the existing coastal groundwater monitoring system. If the landward migration of the interface were to adversely affect the identified beneficial uses of the North Westside Groundwater Basin, impacts related to seawater intrusion would be *significant*.

- *Mitigation Measure M-HY-8a, Expand Coastal Monitoring Network*
- *Mitigation Measure M-HY-8b, Continuous Groundwater Monitoring in the Primary Production Aquifer*
- *Mitigation Measure M-HY-8c, Adaptive Management Program for Seawater Intrusion*

Impact HY-9: The proposed project would possibly have a substantial, adverse effect on water quality that could affect the beneficial uses of Lake Merced. (Less than Significant with Mitigation)

The Project has the potential to affect Lake Merced due to groundwater/surface water interactions. Lake Merced water levels are predicted to be lowered to below 1 foot City Datum for 73 to 76 percent of the simulation period in the model used in the analysis due to project-related pumping, compared to 4 percent predicted under the modeled existing conditions. If water levels were reduced to this extent, more of the lake bed would be exposed, making it susceptible to erosion and associated sedimentation of the lake, and the four individual lakes would separate hydraulically. Further, Impound Lake could be entirely dewatered if lake levels were to drop below -6 feet City Datum. This scenario could occur briefly at the end of the hypothetical design drought, and lake levels are also predicted to approach or exceed this level during the dry years 4 through 16 in the simulated period. Groundwater inflows to the lake are also predicted to be reduced relative to the modeled existing conditions. Reduced water levels and groundwater flows into the lake could increase eutrophication because nutrients discharged to the lake would be concentrated in a smaller lake volume. Also, with a smaller volume, the lake would likely mix more frequently, and, as a result (based on the patterns described above), would likely experience an increase in time-averaged dissolved oxygen levels in the hypolimnion. Because the project is predicted to cause Lake Merced water levels to fall below 0 feet City Datum substantially more frequently than is predicted to occur under modeled existing conditions, the resulting water quality changes under the Project could cause exceedences of water quality objectives in the San Francisco Bay Basin Plan related to warm and cold freshwater habitat (e.g., dissolved oxygen), which in turn could affect associated beneficial uses. Changes in dissolved oxygen levels and pH could also exacerbate the conditions responsible for Lake Merced's listing as an impaired water body. These changes affecting water quality would be a *potentially significant* impact.

- *Mitigation Measure M-HY-9, Lake-Level Management for Lake Merced*

Impact HY-11: Project operation would possibly cause a violation of water quality standards. (Less than Significant with Mitigation)

Potentially contaminating activities were identified within the groundwater protection zones for each of the production wells proposed under the SFGW Project. The types of potentially contaminating activities identified include the sewer system as well as illegal dumping and a number of land uses such as housing, parks, dry cleaners, historical gas stations, transportation corridors, golf courses, existing gas stations, fire stations, fertilizer/pesticide/herbicide application, and contractor or government storage yards. In addition, a leaking underground storage tank site with documented groundwater contamination was identified within the groundwater protection zone for the South Windmill Replacement well facility. However, the groundwater contamination plume is limited to the uppermost part of the aquifer and is stable. Further, a sensitive receptor survey for the site determined that the South Windmill Replacement well facility is located cross gradient from the site and that groundwater quality at this well is not likely to be affected as a result of the underground storage tank leak at this site. Because the Drinking Water Source Assessment and Protection Program reports identified potentially contaminating activities for each proposed well facility, each well is considered vulnerable to contamination that could cause a violation of water quality standards. Therefore, impacts related to violation of water quality standards would be *potentially significant*.

- *Mitigation Measure M-HY-11, Prepare a Source Water Protection Program and Update Drinking Water Source Assessment*

Impact HZ-2: Project construction would possibly result in a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials present in soil and groundwater. (Less than Significant with Mitigation)

The potential to encounter hazardous materials in soil and groundwater at the project sites resulting from migration of offsite contamination is considered low, based on a review of environmental databases conducted during preparation of the EIR, existing groundwater levels in the Project area, soil sampling results, and the maximum depth of excavation during project construction. The project sites are not listed as hazardous materials sites.

Site-specific soil sampling was conducted to determine whether hazardous materials are present at the six proposed well facility locations. Lead concentrations in shallow soil at North Lake and Central Pump Station well facility sites are above screening levels. The potential hazard to construction workers and/or the environment from exposure to known elevated lead levels in soil at the North Lake and Central Pump Station well facility sites would be a *potentially significant* impact.

In addition, although the potential to encounter hazardous materials in soil or groundwater arising from offsite sources is low, site conditions could change prior to construction if new contaminated sites are identified in the project vicinity or if there are substantial changes in the extent of contamination at known release sites. This potential for exposure to hazardous materials at other proposed well facility sites within the Project area also could be a *significant* impact.

- *Mitigation Measure M-HZ-2a, Preconstruction Hazardous Materials Assessment*

- *Mitigation Measure M-HZ-2b, Health and Safety Plan*
- *Mitigation Measure M-HZ-2c, Hazardous Materials Management Plan*

Impact HZ-7: Project operations would possibly impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan. (Less than Significant with Mitigation)

Project operations would involve routine maintenance of groundwater facilities. Project operations associated with groundwater pumping would result in the lowering of the estimated mean monthly Lake Merced lake level. Because the project would result in lowering of Lake Merced water levels, there is the potential for the project to result in a smaller volume of water in the lake. The SFPUC maintains Lake Merced as a nonpotable emergency water supply for the city to be used for firefighting or sanitation purposes if no other sources of water are available. In the event of a major disaster (i.e., catastrophic earthquake), Lake Merced water could be pumped into the city's drinking water distribution system to maintain firefighting, basic sanitary (i.e., toilet flushing), and other critical needs, as part of the emergency response. Decreased lake levels could result in less available water for firefighting and sanitation purposes, which would be considered a *significant* impact.

- *Mitigation Measure M-HY-9, Lake Level Management for Lake Merced*

Cumulative Impacts

Impact C-AE: The proposed project would have a cumulatively considerable contribution to a significant cumulative aesthetic impact. (Less than Significant with Mitigation)

The geographic scope for cumulative aesthetics impacts includes all projects that would be located within the publicly accessible viewshed of the proposed project. With operation of the identified cumulative projects, including the Daly City Vista Grande Basin Improvement Project and the Regional Groundwater Storage and Recovery Project, the estimated Lake Merced water levels are expected to be mostly higher than under existing conditions projected to occur without operation of the cumulative projects. However, during some years, Lake Merced water levels would likely be less than levels that would be expected to occur without operation of the cumulative projects. Under cumulative conditions, Impound Lake would likely be substantially reduced during the design drought, reducing the visual quality of that lake as seen from the paved pedestrian path around the lake perimeter and the picnic areas on John Muir Drive and Lake Merced Boulevard. Lake Merced water level conditions would be naturally reduced under modeled existing conditions. But, groundwater pumping associated with the proposed Project and the Regional Groundwater Storage and Recovery Project would worsen the hydrologic conditions and the scenic qualities of Lake Merced, which would likely be substantially degraded under cumulative conditions at the end of the design drought. Therefore, cumulative impacts on Lake Merced, as a scenic resource, and on the visual character and quality of the Lake Merced area would be significant. However, the Project's contribution to this cumulative aesthetic impact would be reduced to a less-than-cumulatively considerable level with implementation of Project-level mitigation measures (less than significant).

- *Mitigation Measure M-HY-9, Adaptive Management Program for Lake Merced*

Impact C-CP: The proposed project would possibly result in cumulatively considerable impacts related to historical, archaeological, or paleontological resources or human remains. (Less than Significant with Mitigation)

The SFGW Project could encounter previously unrecorded archaeological resources and/or human remains during project excavation. Cumulative projects in the proposed project vicinity that would also involve excavation include the Beach Chalet Athletic Fields Renovation Project, the Murphy Windmill/Millwright's Cottage Restoration Project, and the San Francisco Botanical Gardens Center for Sustainable Gardening Project. These Projects could also encounter previously unrecorded archaeological resources or human remains, which would be a potentially significant cumulative impact. However, with project-level mitigation, the Project's contribution to impacts on archeological resources due to Project construction would be not cumulatively considerable.

With operation of the identified cumulative projects, including the SFPUC's proposed Regional Groundwater Storage and Recovery project and Daly City's proposed Vista Grande Drainage Basin Improvement project, estimated Lake Merced water levels are expected to be mostly higher than under existing conditions projected to occur without operation of the cumulative projects. However, during some years, Lake Merced water levels are predicted to be less than levels that are predicted to occur without operation of the cumulative projects as a result of groundwater pumping under the proposed project and the Regional Groundwater Storage and Recovery Project. Reduced lake levels resulting from cumulative project operations could result in exposure and damage of currently known and unknown archaeological resources, which would be a significant cumulative impact. However, the Project's contribution to this impact would be reduced to a less-than-cumulatively considerable level with implementation of project-level mitigation measures (less than significant).

- *Mitigation Measure M-CP-2a, Accidental Discovery of Archaeological Resources*
- *Mitigation Measure M-CP-2b, Archeological Testing Program*
- *Mitigation Measure M-CP-4, Accidental Discovery of Human Remains*
- *Mitigation Measure M-HY-9, Lake Level Management for Lake Merced*

Impact C-RE: The project's contribution to cumulative impacts on recreational resources and uses would be cumulatively considerable. (Less than Significant with Mitigation)

Specific additional proposed and existing projects that would affect lake levels include the SFPUC's Regional Groundwater Storage and Recovery Project and Daly City's proposed Vista Grande Drainage Basin Improvement Project. With operation of the identified cumulative projects, the estimated Lake Merced water levels are expected to be higher than under the modeled existing conditions. However, with operation of the identified cumulative projects, estimated lake levels would only be below the modeled existing conditions for years 2 through 8 of the simulation period and after year 32 during the modeled drought conditions. Under cumulative conditions, the available surface area of North and South Lakes would not decrease substantially as compared to modeled existing conditions and the water depth under cumulative conditions would likely be sufficient to support existing boating uses in all years. Further, based

on the GIS analysis of shoreline changes, floating and stationary docks would not be disconnected from the lake water surface. However, under cumulative conditions, Impound Lake water levels are predicted to be substantially reduced during an extended drought, as compared to modeled existing conditions. The depth and size of Impound Lake are predicted to be reduced naturally under modeled existing conditions during an extended drought. But, the combination of the groundwater pumping associated with the proposed project and the Regional Groundwater Storage and Recovery Project, along with other ongoing groundwater pumping activities, is predicted to exacerbate the effects described above during the years of an extended drought. Therefore, cumulative impacts on Lake Merced, as a recreational resource, would be significant. However, the Project's contribution to this impact would be reduced to a less-than-cumulatively considerable level with the implementation of a project-level mitigation measure (less than significant).

- *Mitigation Measure M-HY-9, Lake Level Management for Lake Merced*

Impact C-UT: Project implementation would result in cumulatively considerable impacts related to disruption or relocation of utilities, landfill capacity, or compliance with solid waste statutes and regulations. (Less than Significant with Mitigation)

Construction of the SFGW Project could damage existing utilities, disrupt utility services where utility lines would be crossed during construction, and require the temporary relocation of some utilities. Seven cumulative projects would be located adjacent to or near the proposed well facilities and/or pipeline routes, including: the San Francisco Westside Recycled Water Project, the San Francisco State University Campus Master Plan, Vista Grande Drainage Basin Improvement Project, Significant Natural Areas Management Plan, Lake Merced Pump Station Essential Upgrade, and the 3711 19th Avenue ("Parkmerced") Project. However, most of these projects would either not overlap geographically with the SFGW Project or would not occur within the same timeframe as the proposed Project; therefore the likelihood for potential disruption of the same utility lines would be minor. But, two of the projects listed above could also damage existing utilities, disrupt utility services, or cause relocation of utilities. Therefore, potential cumulative impacts related to disruption of utility operations or accidental damage to existing utilities and relocation of regional or local utilities could be significant. The Project's contribution to this potential cumulative impact could be cumulatively considerable. However, the proposed Project's contribution would be reduced to less than cumulatively considerable with implementation of project-level mitigation measures (less than significant).

- *Mitigation Measure M-UT-3a, Preconstruction Utility Identification and Coordination*
- *Mitigation Measure M-UT-3b, Protection of Other Utilities during Construction*
- *Mitigation Measure M-UT-3c, Safeguard Employees from Potential Accidents Related to Underground Utilities*
- *Mitigation Measure M-UT-3d, Notify San Francisco Fire Department*
- *Mitigation Measure M-UT-3e, Emergency Response Plan and Notification*
- *Mitigation Measure M-UT-3f, Ensure Prompt Reconnection of Utilities*

- *Mitigation Measure M-UT-3g Coordinate Final Construction Plans with Affected Utilities*

Impact C-BI: The proposed project would result in a considerable contribution to cumulative impacts related to special-status species, wetlands, waters of the United States, riparian habitat, wildlife nursery sites, or conflicts with local policies and ordinances protecting biological resources. (Less than Significant with Mitigation)

Construction of the Project has the potential to adversely affect special-status species, if present, including California red-legged frog, western pond turtle, special-status bats, and monarch butterfly. It is assumed that the cumulative projects including the Murphy Windmill/Millwright's Cottage Restoration, the Beach Chalet Athletic Fields Renovation Project, the Parkmerced Project, and the San Francisco Botanical Garden Center for Sustainable Gardening Project; and construction of new pipelines and facilities associated with the San Francisco Westside Recycled Water Project, and the Lake Merced Pump Station Essential Upgrade Project, could affect at least some of the same special-status species. If so, these projects, along with the SFGW Project, could result in a potentially significant cumulative impact on biological resources. However, with the implementation of project-level mitigation measures to reduce impacts to these species, the Project's incremental contribution to this potential cumulative impact on biological resources would not be cumulatively considerable (less than significant).

The proposed Project could conflict with local policies or ordinances protecting biological resources because project construction would require the removal of trees that are under the jurisdiction of the SFRPD. It is also assumed that several of the cumulative projects are likely to require the removal of trees within Golden Gate Park. In particular, the Beach Chalet Athletic Fields Renovation Project would require the removal of a number of Monterey pine and Monterey cypress trees. Therefore, the potential exists for tree removal resulting from these multiple projects to rise to the level of cumulative significance. However, with the implementation of project-level mitigation measures to replace trees, the Project's contribution to this impact would not be cumulatively considerable (less than significant).

Water levels decreasing below 0 feet City Datum could substantially reduce aquatic habitat and degrade water quality, thereby negatively affecting fish populations and fish-related beneficial uses of Lake Merced as well as potentially indirectly impacting special-status birds by reducing their food source. Cumulative project operations including SFPUC's Regional Groundwater Storage and Recovery Project and Daly City's proposed Vista Grande Drainage Basin Improvement Project are predicted to result in lake levels above 0 feet City Datum for about 90 percent of the model period and during that time would have no adverse impacts on fisheries or fish habitat. However, during pumping associated with the SFPUC's proposed Regional Groundwater Storage and Recovery Project, combined with pumping associated with the SFGW Project during the simulated design drought, lake levels are predicted to fall as low as -4.9 City Datum, or 4.1 feet lower than the corresponding predicted lake surface elevation for modeled existing conditions. Relative to the modeled existing conditions, this would likely result in a further potential for a decrease in the water quality of Lake Merced, as compared to modeled existing conditions. This suggests that the proposed Project could have a cumulatively considerable incremental contribution to the significant cumulative impact on the water quality of Lake Merced. However, with the implementation of project-level mitigation measures to address lake level management, the Project's cumulatively considerable contribution to water quality and related significant cumulative impact on

fisheries and fish habitat, and potential indirect impacts on special-status birds, would not be cumulatively considerable (less than significant).

- *Mitigation Measure M-BI-1a, Avoidance and Minimization Measures for California Red-Legged Frog and Western Pond Turtle*
- *Mitigation Measure M-BI-1b, Avoidance and Minimization Measures for Special-Status Bats*
- *Mitigation Measure M-BI-1c, Avoidance and Minimization Measures for Monarch Butterfly*
- *Mitigation Measure M-BI-3, Plant Replacement Trees*
- *Mitigation Measure M-HY-9, Lake Level Management for Lake Merced*

Impact C-HY-4: The proposed project, in combination with past, present, and reasonably foreseeable future projects, would possibly have a substantial adverse effect related to seawater intrusion. (Less than Significant with Mitigation)

The potential for seawater intrusion under cumulative conditions with the operation of the Groundwater Storage and Recovery Project and the Daly City Vista Grande Drainage Basin Improvement Project would likely be similar to or less than what is predicted with operation of just the proposed project, except in the area south of the West Sunset well facility where the potential for seawater intrusion would likely be greater in the Deep Aquifer due to pumping under the Regional Groundwater Storage and Recovery Project. Therefore, cumulative impacts related to seawater intrusion could be significant. The Project's contribution to this impact could be cumulatively considerable because the Project would be almost entirely responsible for causing any seawater intrusion that would occur. However, with implementation of project-level mitigation measures, the Project's contribution to the significant cumulative impact would not be cumulatively considerable (less than significant).

- *Mitigation Measure M-HY-8a, Expand Coastal Monitoring Network*
- *Mitigation Measure M-HY-8b, Continuous Groundwater Monitoring in the Primary Production Aquifer*
- *Mitigation Measure M-HY-8c, Adaptive Management Program for Seawater Intrusion*

Impact C-HY-5: The proposed project, in combination with past, present, and reasonably foreseeable future projects, would possibly have a substantial adverse effect on water quality that could affect the beneficial uses of Lake Merced or water quality in Pine Lake. (Less than Significant with Mitigation)

The conservatively estimated lake levels under cumulative conditions including the operation of the Groundwater Storage and Recovery Project and the Daly City Vista Grande Drainage Basin Improvement Project are predicted to be below 1 foot City Datum for 13 percent of the simulation period compared to 4 percent under the modeled existing conditions. In addition, as noted above, the lake levels are predicted to be below the levels predicted under the modeled existing conditions for years 2 through 8 of the simulation period and after year 32. Therefore, cumulative impacts on Lake Merced water levels could be

significant because water level declines below 0 foot City Datum could occur. These water level declines could potentially cause increased eutrophication of the lake, and could also affect the pH and dissolved oxygen levels (the parameters responsible for the listing of Lake Merced as an impaired water body) as well as other water quality parameters, potentially resulting in significant cumulative water quality impacts.

The Project's contribution to this potentially significant cumulative impact would be cumulatively considerable because the lake level declines would primarily be due to declines in groundwater levels resulting from project-related pumping during years 2 through 8 and due to all groundwater pumping after year 32. However, the Project's contribution to this impact would be reduced to a less-than-cumulatively considerable level with implementation of a project-level mitigation measure to address lake level management (less than significant).

- *Mitigation Measure M-HY-9, Lake-Level Management for Lake Merced*

Impact C-HZ: Implementation of the proposed project would possibly result in cumulatively considerable impacts related to hazards and hazardous materials. (Less than Significant with Mitigation)

With the operation of the cumulative projects, the SFPUC's proposed Regional Groundwater Storage and Recovery Project and Daly City's proposed Vista Grande Drainage Basin Improvement Project, the estimated Lake Merced water levels are expected mostly to be higher than under modeled existing conditions (i.e., those that are projected to occur without operation of the cumulative projects). However, during some dry years, Lake Merced water levels are predicted to be less than those that would occur without operation of the cumulative projects. In the event of a major disaster (i.e., catastrophic earthquake), Lake Merced water could be pumped into the city's drinking water distribution system to maintain firefighting, basic sanitary (i.e., toilet flushing), and other critical needs. Decreased lake levels could result in less available water for firefighting and sanitation purposes, thereby resulting in a significant cumulative impact. However, the Project's contribution to this impact would be reduced to a less-than-cumulatively considerable level with the implementation of a project-specific mitigation measure to address lake level management.

- *Mitigation Measure M-HY-9, Lake Level Management for Lake Merced*

IV. Significant Impacts That Cannot Be Avoided or Reduced to a Less-Than-Significant Level

WSIP Impact

Based on substantial evidence in the whole record of these proceedings, the Commission finds that, where feasible, changes or alterations have been required or incorporated into the SFGW Project to reduce the significant environmental impacts as identified in the Final EIR for the Project. All project-

specific impacts will be reduced to a less than significant level with the implementation of the mitigation measures proposed in the Final EIR and set forth in the MMRP, attached hereto as Exhibit A.

The Commission further finds, however, that the Project is a component of the WSIP and, therefore, will contribute to the significant and unavoidable impact caused by the WSIP water supply decision. For the WSIP impact listed below, the effect remains significant and unavoidable. The Commission determines that the following significant impact on the environment, as reflected in the Final PEIR, is unavoidable, but under Public Resources Code Section 21081(a) (3) and (b), and CEQA Guidelines Sections 15091(a) (3), 15092(b) (2) (B), and 15093, the Commission determines that the impact is acceptable due to the overriding considerations described in Section VI below. This finding is supported by substantial evidence in the record of this proceeding.

The WSIP PEIR and the SFPUC's Resolution No. 08-0200 approving the WSIP water supply decision identified three significant and unavoidable impacts of the WSIP: **Impact 5.4.1-2- Stream Flow: Effects on flow along Alameda Creek below the Alameda Creek Division Dam**; **Impact 5.5.5-1-Fisheries: Effects on fishery resources in Crystal Springs reservoir (Upper and Lower)**; and **Impact 7-1-Indirect growth inducing impacts in the SFPUC service area**. Mitigation measures that were proposed in the PEIR were adopted by the SFPUC for these impacts; however, the mitigation measures could not reduce all the impacts to a less than significant level, and these impacts were determined to be significant and unavoidable. The SFPUC adopted the mitigation measures proposed in the PEIR to reduce these impacts when it approved the WSIP in its Resolution No. 08-0200. The SFPUC also adopted a Mitigation Monitoring and Reporting Program as part of that approval. The findings regarding the three impacts and mitigation measures for these impacts set forth in Resolution No. 08-0200 are incorporated into these findings by this reference, as though fully set forth in these CEQA Findings.

Subsequent to the certification of the PEIR, the Planning Department conducted more detailed, site-specific review of two of the significant and unavoidable water supply impacts identified in the PEIR. In the case of **Impact 5.5.5-1**, the project-level fisheries analysis in the Lower Crystal Springs Dam Improvement project Final EIR modifies the PEIR impact determination based on more detailed site-specific data and analysis and determined that impacts on fishery resources due to inundation effects would be less than significant. Project-level conclusions supersede any contrary impact conclusions in the PEIR. The SFPUC adopted CEQA Findings with respect to the approval of the Lower Crystal Springs Dam Improvement project in Resolution No. 10-0175. The CEQA Findings in Resolution No. 10-0175 related to the impacts on fishery resources due to inundation effects are incorporated into these findings by this reference, as though fully set forth in these CEQA Findings.

In the case of **Impact 5.4.1-2**, the project level analysis in the Calaveras Dam Replacement project Final EIR modifies the PEIR determination and concludes that the impact related to stream flow along Alameda Creek between the diversion dam and the confluence with Calaveras Creek (PEIR Impact 5.4.1-2) will be less than significant based on more detailed, site-specific modeling and data. Project-level conclusions supersede any contrary impact conclusions in the PEIR. The SFPUC adopted CEQA Findings with respect to the approval of the Calaveras Dam Improvement project in Resolution No. 11-0015. The CEQA Findings in Resolution No. 11-0015 related to the impacts on fishery resources due to inundation

effects are incorporated into these findings by this reference, as though fully set forth in these CEQA Findings.

The remaining significant and unavoidable water supply impact listed in Resolution No. 08-0200 is as follows, relating to *Impact 7-1*:

Potentially Significant and Unavoidable WSIP Water Supply and System Operation Impact

- **Growth:** Indirect growth-inducement impacts in the SFPUC service area.

V. EVALUATION OF PROJECT ALTERNATIVES

This section describes the Project as well as alternatives and the reasons for approving the Project and for rejecting the alternatives. CEQA mandates that an EIR evaluate a reasonable range of alternatives to the Project or the project location that generally reduce or avoid potentially significant impacts of the Project. CEQA requires that every EIR also evaluate a “No Project” alternative. Alternatives provide a basis of comparison to the Project in terms of their significant impacts and their ability to meet project objectives. This comparative analysis is used to consider reasonable, potentially feasible options for minimizing environmental consequences of the Project.

a. Reasons for Approval of the Project

The overall goals of the WSIP for the regional water system are to:

- Maintain high-quality water and a gravity-driven system.
- Reduce vulnerability to earthquakes – deliver basic service to the three regions in the service area within 24 hours and restore facilities to meet average-day demand within 30 days after a major earthquake.
- Increase delivery reliability – allow planned maintenance shutdown without customer service interruption and minimize risk of service interruption from unplanned outages.
- Meet customer water supply needs through 2018 – meet average annual water purchase requests during nondrought years and meet dry-year delivery needs while limiting rationing to a maximum 20 percent systemwide; diversify water supply options during nondrought and drought years and improve use of new water resources, including the use of groundwater, recycled water, conservation and transfers.
- Enhance sustainability.
- Achieve a cost-effective, fully operational system.

The Project would help meet WSIP goals by increasing water delivery reliability and helping to meet customer water supply needs. In addition, the project would provide up to 6 mgd of potable

groundwater for up to 30 days as an emergency water supply in the event of an earthquake or other major catastrophe. Specific objectives of the Project are to:

- Expand and diversify the SFPUC's water supply portfolio to increase system reliability.
- Increase the use of local water supply sources.
- Reduce dependence on imported surface water.

The Project would provide 3 to 4 mgd of groundwater to San Francisco's municipal water supply, thereby increasing the water supply over existing conditions using local groundwater. This increase in water supply would improve the SFPUC's ability to deliver water to its customers in San Francisco during both drought and nondrought periods. The Project will help the SFPUC to diversify its water supply portfolio by adding up to 4 mgd from local groundwater to the SFPUC water supply, which largely consists of imported surface water. The proposed Project is a fundamental component of the SFPUC's WSIP and is needed to fully meet WSIP goals and objectives, in particular those for seismic reliability, delivery reliability, and water supply reliability.

b. Alternatives Rejected and Reasons for Rejection

The Commission rejects the alternatives set forth in the Final EIR and listed below because the Commission finds that there is substantial evidence, including evidence of economic, legal, social, technological, and other considerations described in this section, in addition to those described in Section VI below, under CEQA Guidelines 15091(a)(3) that make such Alternatives infeasible. In making these infeasibility determinations, the Commission is aware that CEQA defines "feasibility" to mean "capable of being accomplished in a successful manner within a reasonable period of time, taking into account economic, environmental, social, legal, and technological factors." The Commission is also aware that under CEQA case law the concept of "feasibility" encompasses (i) the question of whether a particular alternative promotes the underlying goals and objectives of a project, and (ii) the question of whether an alternative is "desirable" from a policy standpoint to the extent that desirability is based on a reasonable balancing of the relevant economic, environmental, social, legal, and technological factors.

Under the No Project Alternative, the SFGW Project would not be constructed or operated. Proposed well facilities and associated disinfection facilities, distribution pipelines and pH-adjustment facilities would not be constructed, and the two existing irrigation wells in Golden Gate Park would not be converted to potable groundwater well facilities. The existing test wells would not be utilized as production wells and would be decommissioned in accordance with the well destruction requirement of the California Water Well Standards promulgated by the California Department of Water Resources and implemented by the City's Department of Public Health. Existing groundwater pumping in the Westside Groundwater Basin would continue at approximately 9.74 mgd – with 8.232 mgd outside of San Francisco, and 1.508 mgd in San Francisco (1.14 mgd of irrigation pumping in Golden Gate Park, 0.009 mgd of pumping for irrigation at the Edgewood Development Center, 0.32 mgd of pumping at the San Francisco Zoo, 0.004 mgd of pumping to maintain Pine Lake water levels, and 0.035 mgd of irrigation

pumping at the San Francisco Golf Club). The modeled existing groundwater basin conditions as described in the EIR would be predicted to continue under the No Project Alternative.

The No Project Alternative would not meet any of the project objectives, which are to expand and diversify the SFPUC's water supply portfolio to increase system reliability; increase the use of local water supply sources; and reduce dependence on imported surface water. Also, it would fail to meet the WSIP goals and objectives that rely directly on the contribution of the Project to fulfill systemwide level of service objectives. If the Project is not constructed, the SFPUC's water supply portfolio would not include 3 to 4 mgd of a local groundwater resource. The SFPUC would be limited in its ability to meet its adopted WSIP seismic delivery and water supply reliability goals, particularly in the San Francisco region, because of reduced water supply in San Francisco. The No Project Alternative would leave San Francisco without a high-quality emergency water supply during emergencies. If the regional water delivery system is damaged during an earthquake or other disaster, up to 6 mgd of local groundwater from the Project would not be available for up to 30 days following the event. Lake Merced, which is identified as an emergency water source for San Francisco for firefighting, sanitation and other nonpotable uses, would not be available for potable uses without boiling the water, in contrast to the Project, which would provide potable groundwater.

Under the No Project Alternative, groundwater pumping would continue at existing rates. Consequently, there is a low probability of long-term effects related to seawater intrusion, no impact to municipal supply wells from contaminating activities that could affect groundwater quality, and no need for additional energy use. The No Project Alternative would lessen the potential to lower Lake Merced water levels and lessen the resulting related effects on water quality, recreational resources, aesthetics and freshwater marsh wetlands. Lake levels would continue to respond to hydrologic conditions and fluctuate but are predicted to be higher by approximately 10 feet than under the Project. Consequently, effects on water quality, recreational resources, scenic resources, aquatic habitat and special status species, freshwater wetlands, archeological resources, and availability of Lake Merced water for fire and sanitation purposes would still occur but at a much lower frequency than with the Project. The No Project Alternative would not require use of hazardous materials, and all construction-related effects to archeological resources, noise levels, utility lines, biological resources, tree removals, hydrology or hazards would be avoided.

While the No Project Alternative would avoid or reduce impacts that would occur compared to those of the Project, the Project impacts would be fully mitigated through the adoption of identified mitigation measures. The only unmitigated impact that would occur with the Project is the Project's contribution as part of the WSIP to indirect impacts related to growth. To the extent that the 3 to 4 mgd of water supply from the Project contributes to growth, the Project's contribution to the indirect impacts associated with growth would not occur with the No Project Alternative.

The Commission rejects the No Project Alternative as infeasible because it would not meet any of the Project objectives, and because it would jeopardize the SFPUC's ability to meet the adopted WSIP goals and objectives as set forth in SFPUC Resolution No. 08-0200.

Under the Reduced Yield Alternative, the same facilities would be constructed as for the Project, except only four well facilities would be constructed instead of six. The Lake Merced site and the South Sunset site would not have well facilities and the existing test wells at these sites would not be converted to municipal supply wells. Pumping would be shifted away from Lake Merced and would occur northward and in Golden Gate Park. As a consequence, the Phase 1 production rate under this alternative would be approximately 1.75 mgd, compared to 2.5 to 3 mgd under Phase 1 of the Project. The Phase 2 production rate under the Reduced Yield Alternative would be 2.9 mgd, compared to 4 mgd under Phase 2 of the Project.

The four wells that would be part of the Reduced Yield Alternative would be capable of producing up to 4 mgd during a catastrophic emergency for up to 30 days, with the use of portable generators to provide backup power. The Project, by comparison, could produce up to 6 mgd of water for up to 30 days during a catastrophic emergency. The distribution system under Alternative 2 would be the same as for the Project, except a pipeline connecting the South Sunset well facility to the West Sunset well facility would not be constructed.

The Reduced Yield Alternative at full implementation results in the same yield as Phase 1 of the Project, but unlike Phase 1 of the Project, full implementation of the Reduced Yield Alternative relies on the provision of recycled water to Golden Gate Park, a project that has not been approved by SFPUC.

The Reduced Yield Alternative would meet all of the Project objectives but would only partially meet the WSIP goals and objectives. The total average yield for the Reduced Yield Alternative under normal operations would be 2.9 mgd compared to 4 mgd under the proposed Project, and it would provide less water following an earthquake or other catastrophic event. The SFPUC would be unable to fully meet WSIP goals and objectives related to customer water supply needs. SFPUC would have 1.1 mgd less of water supply available than identified as needed to meet WSIP goals and objectives, including projected water demand. In addition, SFPUC could be restricted from conducting planned maintenance without interrupting customer service. In an emergency, the Reduced Yield Alternative would provide 2 mgd less of potable groundwater in the first critical 30-day period than under the Project.

Environmentally Superior Alternative. The Reduced Yield Alternative would be the Environmentally Superior Alternative, other than the No Project Alternative.

The Reduced Yield Alternative would lessen the potential to lower Lake Merced water levels and result in related effects on water quality, recreational resources, aesthetics and freshwater marsh wetlands because Alternative 2 would eliminate pumping in the vicinity of Lake Merced and at the South Sunset Playground site. As a result, as compared to the Project, the Reduced Yield Alternative would have the same adverse effects but to a lesser degree, on Lake Merced water levels and associated impacts on water quality, biological resources, aesthetics, recreational resources, archeological resources and the availability of Lake Merced water for firefighting and sanitation purposes and the potential for seawater intrusion effects. Construction impacts would generally be less as well because a 4,460-foot distribution pipeline would be eliminated and 2 test wells would not be converted to production wells. All of the significant impacts of the proposed Project would remain significant under the Reduced Yield

Alternative, but the magnitude of significance would generally be less. Like the Project, all Project impacts would be reduced to a less-than-significant level with implementation of the same mitigation measures specified in the EIR.

The Reduced Yield Alternative would still contribute to the WSIP's significant and unavoidable indirect impact related to growth, but to a lesser degree than for the Project, as it would provide 1.1 mgd less of water supply that could contribute to growth.

The Commission rejects this alternative as infeasible because it will not allow the SFPUC to fully meet WSIP goals and objectives. Although this alternative would meet the SFPUC's objectives for the Project, it would only partially meet the WSIP goals and objectives, which rely directly on the 4 mgd of local groundwater supply that the Project would contribute to fulfill systemwide level of service objectives. The total average yield under normal operations for the Reduced Yield Alternative would be 2.9 mgd, causing the SFPUC to fall short of its WSIP identified supply need of 4 mgd from local groundwater by 2018. In a catastrophic emergency, the SFPUC would also be limited in its ability to meet WSIP seismic, delivery, and water supply reliability goals, particularly in San Francisco, because the total amount of potable groundwater available during an emergency would be 4 mgd instead of 6 mgd. For these reasons, the Commission rejects the Reduced Yield Alternative as infeasible.

The Local Desalination Plant Alternative would construct a small seawater desalination plant in San Francisco at or near the Oceanside Water Pollution Control Plant ("Plant"), to provide a sustained capacity of 4 mgd and an emergency capacity of 6 mgd of desalinated water, consistent with the amount of groundwater pumping provided under the proposed Project. Alternative 3 would provide year-round supplies during all hydrologic year types to blend into the regional system. It would require construction of a small desalination plant; an associated seawater intake structure 40-50 feet in depth off-shore; an intake pipeline located one to two miles off-shore; treatment facilities; and raw and treated water pump stations. It would also require construction of approximately 2.4 miles (12,700 feet) of distribution pipelines between the Oceanside Plant and the Sunset Reservoir.

It would be constructed within undeveloped portions of the existing Plant or on undeveloped land nearby, which may require improvements such as earthwork and concrete demolition to make the site geotechnically able to support the desalination facilities. The construction of improvements and operation and maintenance of the desalination plant at any of the potential undeveloped locations at or near the Plant could interfere with Plant operations. Other issues associated with undeveloped land at or near the Plant include the possibility of disturbing hazardous materials, the possible need to relocate overflow Zoo parking, or to demolish structures, some of which may be historic resources.

Alternative 3 would include a pretreatment process to remove pathogens and suspended solids, a dual-stage reverse-osmosis system to remove salts, and post-treatment to stabilize and disinfect the water. Brine from the treatment process would be discharged to the Plant and after treatment from the Plant to the ocean. Permits and approvals would be required from the California Department of Public Health, U.S. Army Corps of Engineers, National Marine Fisheries Service, Regional Water Quality Control Board and California Coastal Commission. Alternative 3 would cost considerably more than the Project. It

would take considerably additional time to complete a design, prepare possibly additional environmental review, and obtain necessary permits and approvals.

The proposed well facilities and associated disinfection facilities, distribution pipelines, and pH-adjustment facility that are part of the Project would not be constructed, and the two existing irrigation wells in Golden Gate Park would not be converted to potable groundwater wells. Existing groundwater pumping in the Westside Groundwater Basin would continue at approximately 9.74 mgd as described for the No Project Alternative.

Alternative 3 would meet all Project objectives and all WSIP goals and objectives that rely on the contribution of the Project to fulfill systemwide level of service objectives.

Under Alternative 3, long-term impacts associated with the Project would decrease. Groundwater pumping would continue at existing rates; consequently, there is a low probability of seawater intrusion, and no impact to municipal supply wells from contaminating activities that could affect groundwater quality. Alternative 3 would lessen the potential to lower Lake Merced water levels and result in related effects on water quality, recreational resources, aesthetics and freshwater marsh wetlands. Lake levels would continue to respond to hydrologic conditions and fluctuate but are predicted to be higher by approximately 10 feet than under the Project. Consequently, effects on water quality, recreational resources, scenic resources, aquatic habitat and special status species, freshwater wetlands, archeological resources, and availability of nonpotable Lake Merced water for firefighting and sanitation purposes would still occur but at a much lower frequency than with the Project.

Alternative 3 would introduce several additional short-term and long-term impacts that would be different than impacts associated with the Project. Depending on location, it could impact scenic resources viewed from the Great Highway, affect historic resources and disturb hazardous materials in buildings or soil. It could require removal of mature trees and habitat for the western pond turtle, California-red legged frog and special status bats at different locations than would occur with the Project. It could subject animals at the Zoo to construction-related noise, dust and vibration. Operation of the desalination plant could entrain or impinge on marine organisms in the intake pipeline, potentially adversely affecting special-status species, although the facility would be sited and designed to minimize sediment intrusion and impingement of marine organisms as well as to maximize water quality. The intake structure and pipeline could be subject to fault rupture given its location in or near the San Andreas Fault and would be in an area along the coast subject to instability and erosion. High-salinity discharges from the treatment facility into the Pacific Ocean could degrade water quality. Plant operation would increase the use, storage, transport and disposal of chemicals for pH adjustment, disinfection, particulate removal, control of mineral deposition, prevention of biological fouling, cleaning and reverse-osmosis to remove salts, thereby increasing risks associated with hazardous materials. Plant operation would substantially increase energy consumption for desalination and pumping. It could disturb hazardous building materials or hazardous materials in soil.

Construction impacts could be less or more intense than those of the Project. The total length of pipeline construction would be less than half that of the Project and would affect fewer residents, businesses and utilities, but could cause noise, dust and vibration impacts to Zoo animals. On the other hand, the

location of the Alternative 3 could affect more cultural resources in the vicinity of the desalination plant and distribution pipeline, and Alternative 3 would require construction in the ocean environment.

In sum, while the Local Desalination Plant Alternative would avoid long-term groundwater-related impacts of the Project, it would require a significant increase in hazardous materials use and long-term energy use compared to the project. It could be subject to hazards such as fault rupture and unstable slopes. Marine organisms could become entrained or impinged in the intake pipeline, and water quality effects could result from discharges of saline water from the desalination plant. Noise from construction-related impacts would affect fewer residents but could expose Zoo animals to construction-related noise and dust. Some construction-related effects from the Project would be avoided, but Alternative 3 would result in other construction-related impacts.

The Commission rejects Alternative 3 as infeasible because it would not result in fewer environmental impacts than for the Project and it creates implementation challenges because of regulatory and permitting requirements that it would have to meet. While the Project would mitigate all of its significant project-level environmental effects, as part of the WSIP, it would contribute to a significant and unavoidable indirect impact related to growth. Alternative 3 would likewise make the same contribution to a significant and unavoidable indirect impact related to growth as the Project. While some impacts associated with the Project would be avoided – mitigable impacts to Lake Merced and construction-related noise and utility impacts in residential areas - Alternative 3 would result in many new impacts not associated with the Project. These include a substantial increase in energy use to operate the desalination facility, and increased use of hazardous materials and associated possible effects of handling, storing, transporting and disposing of such materials. Alternative 3 would impact marine organisms and water quality because of the need to construct facilities, operate an intake pipe and discharge brine in the Pacific Ocean. Construction of the facility would occur in or near the San Andreas Fault and along a shoreline area susceptible to instability and erosion, resulting in geological impacts. Construction-related noise and dust impacts could adversely affect Zoo animals, and the facility could possibly have significant impacts to historic and scenic resources.

Alternative 3 would also need to meet regulatory and permitting conditions for brine disposal and for minimizing impacts on aquatic resources that pose challenges, making implementation of this alternative uncertain. For all of the above reasons, the Commission rejects Alternative 3 as infeasible.

Alternative 4, Pipeline Location Alternative, would construct 8,800 feet of pipeline on Sunset Boulevard instead of along 41st Avenue between Martin Luther King Jr. Drive in Golden Gate Park and Vicente Street and along 40th Avenue between Vicente Street and Wawona Street. In other respects, Alternative 4 would be the same as the Project.

Alternative 4 would meet all of the Project objectives and help meet the WSIP goals and objectives to the same degree as the Project.

Alternative 4 would result in similar impacts compared to the Project, with these exceptions. It would result in three increased impacts: it could temporarily disrupt recreational resources along the Sunset

Boulevard footpath, it would result in greater construction-related traffic impacts because Sunset Boulevard is a major thoroughfare and has more traffic than 41st Avenue and has bus stops that would need to be temporarily relocated, and it would increase the potential for inadvertent rupture of underground utilities because more utilities are located in Sunset Boulevard than 41st Avenue. It would result in one decreased impact: it would lessen construction-related noise impacts on residential receptors by moving pipeline-related construction further away from residences.

The Commission rejects this Alternative as infeasible because this Alternative would not result in fewer environmental impacts than for the Project. While reducing the temporary noise impacts to residents along portions of 41st and 40th Avenues, it would increase temporary impacts on recreational resources, utilities, and traffic along Sunset Boulevard.

VI. STATEMENT OF OVERRIDING CONSIDERATIONS

Pursuant to CEQA Section 21081 and CEQA Guidelines Section 15093, the Commission hereby finds, after consideration of the Final EIR and the evidence in the record, that each of the specific overriding economic, legal, social, technological and other benefits of the Project as set forth below, independently and collectively outweighs the significant and unavoidable impacts and is an overriding consideration warranting approval of the Project. Any one of the reasons for approval cited below is sufficient to justify approval of the Project. Thus, even if a court were to conclude that not every reason is supported by substantial evidence, the Commission will stand by its determination that each individual reason is sufficient. The substantial evidence supporting the various benefits can be found in the preceding findings, which are incorporated by reference into this section, and in the documents found in the Record of Proceedings, as defined in Section I.

On the basis of the above findings and the substantial evidence in the whole record of this proceeding, the Commission specifically finds that there are significant benefits of the Project in spite of the unavoidable significant impacts, and therefore makes this Statement of Overriding Considerations. The Commission further finds that, as part of the process of obtaining Project approval, all significant effects on the environment from implementation of the Project have been eliminated or substantially lessened where feasible. All mitigation measures proposed in the Final EIR for the Project are adopted as part of this approval action. Furthermore, the Commission has determined that any remaining significant effects on the environment found to be unavoidable are acceptable due to the following specific overriding economic, technical, legal, social, and other considerations.

The Project will have the following benefits:

- The Project will expand and diversify the SFPUC's water supply portfolio to increase system reliability, particularly for retail customers in San Francisco. The Project provides an additional 4 mgd of water supply from other than imported surface water, the main water supply source in the SFPUC water system.

- The Project will increase the use of local water supply sources. The Project provides 4 mgd of potable groundwater from the Westside Groundwater Basin, located in San Francisco and the San Francisco Peninsula area.
- The Project will reduce dependence on imported surface water. The Project provides 4 mgd from groundwater.
- The Project will provide potable groundwater for emergency supply in the event of an earthquake or other major catastrophe. The Project will provide up to 6 mgd from local groundwater wells for up to 30 days in the event a catastrophe causes a loss of available water from the SFPUC's regional water system.

In addition, the Project will further the WSIP's goals and objectives. As part of the approval of Resolution 08-2000, the SFPUC adopted a Statement of Overriding Considerations as to why the benefits of the WSIP outweighed the significant and unavoidable impacts associated with the WSIP. This Statement of Overriding Considerations is relevant to the significant and unavoidable impact related to growth-inducement to which this Project contributes. The findings regarding the Statement of Overriding Considerations set forth in Resolution No. 08-2000 are incorporated into these findings by this reference, as though fully set forth in these CEQA Findings. In addition, for the particular reasons set forth below, this project helps to implement the following benefits of the WSIP:

- Implementation of the WSIP will reduce vulnerability to earthquakes. The WSIP includes many features that are designed to improve the seismic safety and reliability of the water system as a means of saving human life and property under a catastrophic earthquake scenario or even a disaster scenario not rising to the level of catastrophe. Effecting the improvements to assure the water system's continued reliability, and developing it as part of a larger, integrated water security strategy, is critical to the Bay Area's economic security, competitiveness and quality of life. This Project provides a critical source of water – local groundwater – that will be available even if it is not possible for a period of time to obtain imported surface water from the SFPUC's regional water system.
- The WSIP would meet SFPUC customer water supply needs by providing 265 mgd of retail and wholesale customer purchases from the SFPUC watersheds, and meet or offset the remaining 20 mgd through conservation, recycled water, and groundwater in the retail and wholesale service areas. Ten mgd of this would be met, as proposed under the WSIP, through conservation, recycled water, and groundwater projects in San Francisco, and 10 mgd would be met through local conservation, recycled water and groundwater in the wholesale service area. Of the 10 mgd that would come from projects in San Francisco, the WSIP identifies 4 mgd from local groundwater sources. This Project would provide this critical 4 mgd of local groundwater.
- The WSIP will substantially improve use of new water sources and drought management, including use of groundwater, recycled water, conservation, and transfers. A critical part of the WSIP is to provide water from new sources other than from imported surface water from the Hetch Hetchy Valley or watersheds in Alameda County and the Peninsula. This Project is important to meeting the WSIP goal of providing water from a San Francisco groundwater resource.
- The WSIP projects are designed to meet applicable federal and state water quality requirements. This Project, with the implementation of Mitigation Measure HY-11, *Prepare a Source Water Protection*

Program and Update Drinking Water Source Assessment, will make certain that any potentially contaminating activities in the area of the groundwater wells, would not result in contamination of the groundwater extracted for drinking water purposes.

- The WSIP will diversify water supply options during non-drought and drought periods. The Project supports this WSIP objective by providing up to 4 mgd of local groundwater during both drought and non-drought periods.

Having considered these benefits, including the benefits discussed in Section I above, the Commission finds that the benefits of the Project and the Project's furtherance of the WSIP goals and objectives outweigh the unavoidable adverse environmental effects, and that the adverse environmental effects are therefore acceptable.

DECISION

That based upon the Record, the submissions of the SFPUC, the Department and SFPUC staff, and other interested parties, the oral testimony presented to this Commission at the public hearings, and all other written materials submitted by all parties, the Commission hereby **ADOPTS** findings under the California Environmental Quality Act, including rejecting alternatives as infeasible, adopting a Statement of Overriding Considerations, and **ADOPTS** a Mitigation Monitoring and Reporting Program, attached as **Exhibit A**

I hereby certify that the Planning Commission ADOPTED the foregoing Motion on December 19, 2013.

Jonas P. Ionin
Commission Secretary

AYES: Commissioners Hillis, Borden, Sugaya, Antonini, Moore, and Wu

NAYES: None

ABSENT: Commissioner Fong

ADOPTED: December 19, 2013