

Appendix C

Summary of Impacts Table

Appendix C
Summary of Impacts and Mitigation Measures for the Groundwater Storage and Recovery Project

Impact Statement	Site 1	Site 2	Site 3	Site 4	WLP5	Site 5 (On-site)	Site 5 (Consol)	Site 6 (On-site)	Site 6 (Consol)	Site 7 (On-site)	Site 7 (Consol)	Site 8	Site 9	Site 10	Site 11	Site 12	Site 13	Site 14	Site 15	Site 16	Site 17 (A)	Site 18 (A)	Site 19 (A)	Mitigation		
Section 5.2 Land Use																										
Impact LU-1. Project construction would have a substantial impact on the existing character of the vicinity and could substantially disrupt or displace existing land uses or land use activities.	SUM	LS	SUM	SUM	NI	SUM	LSM	LS	LS	LS	LSM	LS	SUM	LSM	LSM	SUM	LSM	SUM	LSM	SUM	LSM	SUM	SUM	SUM	M-LU-1: Maintain Internal Cemetery Access (Site 7 [Consolidated Treatment at Site 6] and Site 14) M-NO-1: Noise Control Plan (1, 3, 4, 5, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17 [Alternate], 18 [Alternate], and 19 [Alternate]) M-NO-3: Expanded Noise Control Plan (1, 3, 4, 5, 9, 10, 11, 12, 13, 14, 15, 16, 17 [Alternate], 18 [Alternate], and 19 [Alternate]) M-TR-1: Traffic Control Plan (Sites 2, 4, 5, 6, 7, 10, 12, 13, 14, 15, 17 [Alternate], 18 [Alternate], and 19 [Alternate]) M-AQ-2a: BAAQMD Basic Construction Measures (All Sites) M-AQ-3: Construction Health Risk Mitigation (Site 5 On-site Treatment)	
Impact LU-2. Project operations would result in substantial long-term or permanent impacts on the existing character or disrupt or displace land uses.	LSM	LS	LS	LS	LSM	LSM	LS	LS	LS	LS	LS	LS	LSM	LS	LS	LS	LS	LS	LS	LS	LS	LS	LSM	LS	M-NO-5: Operational Noise Control Measures (Sites 1, 5 [On-site Treatment], 7 [On-site Treatment], 9, 12, 18 [Alternate], and the Westlake Pump Station)	
Impact C-LU-1. Construction and operation of the proposed Project could result in a cumulatively considerable contribution to cumulative impacts related to land use.	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	SUM	LS	LS	SUM	LS	LS	LS	LS	LS	LS	SUM	SUM	M-NO-1: Noise Control Plan (1, 3, 4, 5, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17 [Alternate], 18 [Alternate], and 19 [Alternate]) M-NO-3: Expanded Noise Control Plan (1, 3, 4, 5, 9, 10, 11, 12, 13, 14, 15, 16, 17 [Alternate], 18 [Alternate], and 19 [Alternate]) M-NO-5: Operational Noise Control Measures (Sites 1, 5 [On-site Treatment], 7 [On-site Treatment], 9, 12, 18 [Alternate], and the Westlake Pump Station)	
Section 5.3 Aesthetics																										
Impact AE-1. Project construction would have a substantial adverse impact on a scenic vista, resource, or on the visual character of a site or its surroundings.	LS	LS	LS	LSM	NI	LS	LS	LS	LS	SUM	SUM	LS	LS	LS	LS	LSM	LSM	LSM	LSM	LS	LS	LSM	LS	LS	M-AE-1a: Site Maintenance (Sites 4, 7, 12, 13, 14, 15, and 18 [Alternate]) M-AE-1b: Tree Protection Measures (Sites 3, 4, 7, 10, 11, 12, 13, 14, 15, and 17 [Alternate]) M-AE-1c: Develop and Implement at Tree Replanting Plan (Site 12) M-AE-1d: Construction Area Screening (Site 15) M-AE-1e: Tree Removal and Replacement (Site 7) M-CR-1a: Minimize Construction-related Impacts on Elements of the Historical Resource at Site 14	
Impact AE-2. Project construction would not create a new source of substantial light that would adversely affect day or nighttime views in the area.	LS	NI	LS	LS	NI	NI	NI	NI	NI	NI	NI	NI	LS	NI	NI	LS	NI	LS	LS	LS	NI	LS	LS	LS	None required	
Impact AE-3. Project operation would have a substantial adverse impact on a scenic vista, resource, or on the visual character of a site or its surroundings.	LS	LS	LS	LSM	NI	LS	NI	LS	LS	LSM	LSM	LS	LS	LS	LS	LS	LS	LSM	LSM	NI	LS	LSM	LS	LS	M-AE-3a: Implement Landscape Screening (Sites 4, 7, and 18 [Alternate]) M-CR-5a: Minimize Facilities Siting Impacts on Elements of the Historical Resource at Site 14 M-CR-5b: Minimize Facilities Siting Impacts on Elements of the Historical Resource at Site 15	
Impact AE-4. Project operation would not create a new source of substantial light that would adversely affect day or nighttime views in the area.	LS	LS	LS	LS	NI	LS	LS	NI	NI	NI	NI	NI	LS	LS	NI	LS	LS	LS	LS	LS	NI	LS	LS	LS	None required	
Impact C-AE-1. Construction and operation of the proposed Project could result in a cumulatively considerable contribution to cumulative impacts related to scenic resources and visual character.	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	LS	LS	NI	LS	LSM	LSM	NI	NI	NI	LS	NI	LS	LS	M-AE-1a: Site Maintenance (Sites 4, 7, 12, 13, 14, 15, and 18 [Alternate]) M-AE-1b: Tree Protection Measures (Sites 3, 4, 7, 10, 11, 12, 13, 14, 15, and 17 [Alternate]) M-AE-1c: Develop and Implement a Tree Planting Program (Site 12)	
Section 5.4 Population & Housing - None. No impacts would occur.																										
Section 5.5 Cultural and Paleontological Resources																										
Impact CR-1. Project construction could cause an adverse change in the significance of a historical resource.	NI	NI	NI	NI	NI	NI	NI	NI	NI	LS	LS	NI	NI	NI	NI	NI	NI	LSM	LSM	NI	NI	NI	NI	NI	M-CR-1a: Minimize Construction-related Impacts to Elements of the Historical Resources at Site 14 M-CR-1b: Minimize Construction-related Impacts on Elements of the Historical Resources at Site 15 M-NO-2: Reduce Vibration Levels during Construction of Pipelines (Sites 1, 5 [On-site Treatment], 7 [On-site Treatment], 9, 12, 18 [Alternate], and the Westlake Pump Station)	
Impact CR-2. Project construction could cause an adverse change in the significance of an archaeological resource.	LSM	LSM	LSM	LSM	NI	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	M-CR-2: Discovery of Archaeological Resources (All Sites except Westlake Pump Station)
Impact CR-3. Project construction could result in a substantial adverse effect by destroying a unique paleontological resource or site.	LSM	LSM	LSM	LSM	NI	LSM	LSM	LSM	LSM	LSM	LSM	LSM	NI	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	M-CR-3: Suspend Construction Work if a Paleontological Resource is Identified (All Sites except Site 9 and Westlake Pump Station)	

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Impact CR-4. Project construction could result in a substantial adverse effect related to the disturbance of human remains.	LSM	LSM	LSM	LSM	NI	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	M-CR-4: Accidental Discovery of Human Remains (All Sites except Westlake Pump Station)
Impact CR-5. Project facilities could cause an adverse change in the significance of a historical resource.	NI	NI	NI	NI	NI	NI	NI	NI	NI	LS	LS	NI	NI	NI	NI	NI	NI	LSM	LSM	NI	NI	NI	NI	NI	M-CR-5a: Minimize Facilities Siting Impacts on Elements of the Historical Resources at Site 14 M-CR-5b: Minimize Facilities Siting Impacts on Elements of the Historical Resources at Site 15
Impact C-CR-1. Construction of the proposed Project could result in a cumulatively considerable contribution to cumulative impacts on historical, archaeological, or paleontological resources, or human remains.	LSM	LSM	LSM	LSM	NI	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	M-CR-2: Discovery of Archaeological Resources (All Sites except Westlake Pump Station) M-CR-3: Suspend Construction Work if a Paleontological Resource is Identified (All Sites except Site 9 and Westlake Pump Station) M-CR-4: Accidental Discovery of Human Remains (All Sites except Westlake Pump Station)
Section 5.6 Transportation and Circulation																									
Impact TR-1. The Project would conflict with an applicable plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system.	LS	LS	LS	LSM	LS	LSM	LSM	LSM	LSM	LSM	LSM	LS	LS	LSM	LS	LSM	LSM	LSM	LSM	LS	LSM	LSM	LSM	LSM	M-TR-1: Traffic Control Plan (Sites 2, 4, 5, 6, 7, 10, 12, 13, 14, 15, 17 [Alternate], 18 [Alternate], and 19 [Alternate])
Impact TR-2. The Project would temporarily impair emergency access to adjacent roadways and land uses during construction.	NI	LSM	NI	LS	NI	LSM	LSM	LS	LS	LS	LS	NI	NI	LS	NI	LS	LSM	LS	LS	LS	LS	LS	LS	LS	M-TR-1: Traffic Control Plan (Sites 2, 4, 5, 6, 7, 10, 12, 13, 14, 15, 17 [Alternate], 18 [Alternate], and 19 [Alternate])
Impact TR-3. The Project would temporarily decrease the performance and safety of public transit, bicycle, and pedestrian facilities during construction.	NI	LS	LS	LS	NI	LS	LS	LS	LS	LS	LS	NI	NI	LS	NI	LSM	LSM	LSM	LSM	LS	LS	LS	LS	LSM	M-TR-1: Traffic Control Plan (Sites 2, 4, 5, 6, 7, 10, 12, 13, 14, 15, 17 [Alternate], 18 [Alternate], and 19 [Alternate])
Impact TR-4. Project operations and maintenance activities would not conflict with an applicable plan or policies regarding performance of the transportation system or alternative modes of transportation.	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	None required
Impact C-TR-1. Construction and operation of the proposed Project could result in a cumulatively considerable contribution to cumulative impacts related to transportation and circulation.	LS	LSM	LS	LSM	LS	LSM	LSM	LSM	LSM	LSM	LSM	LS	LS	LSM	LS	LSM	LSM	LSM	LSM	LS	LSM	LSM	LSM	LSM	M-TR-1: Traffic Control Plan (Sites 2, 4, 5, 6, 7, 10, 12, 13, 14, 15, 17 [Alternate], 18 [Alternate], and 19 [Alternate]) M-C-TR-1: Coordinate Traffic Control Plan with other SFPUC Construction Projects (Sites 2, 4, 5, 6, 7, 10, 12, 13, 14, 15, 17 [Alternate], 18 [Alternate], and 19 [Alternate])
Section 5.7 Noise and Vibration																									
Impact NO-1. Project construction would result in noise levels in excess of local standards.	SUM	NI	LSM	SUM	NI	NI	NI	NI	NI	LS	LS	LSM	SUM	LSM	LSM	SUM	LSM	LSM	LS	SUM	LSM	SUM	SUM	SUM	M-NO-1: Noise Control Plan (1, 3, 4, 5, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17 [Alternate], 18 [Alternate], and 19 [Alternate])
Impact NO-2. Project construction would result in excessive groundborne vibration.	LS	LS	LSM	LSM	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LSM	LS	LS	LSM	LS	LS	LSM	LS	LS	M-NO-2: Reduce Vibration Levels during Construction of Pipelines (Sites 3, 4, 12, 15, and 18 [Alternate])
Impact NO-3. Project construction would result in a substantial temporary increase in ambient noise levels.	SUM	LS	SUM	SUM	LS	SUM	LSM	LS	LS	LS	LS	LS	SUM	LSM	LSM	SUM	LSM	SUM	LSM	SUM	LSM	SUM	SUM	SUM	M-NO-1: Noise Control Plan (1, 3, 4, 5, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17 [Alternate], 18 [Alternate], and 19 [Alternate]) M-NO-3: Expanded Noise Control Plan (1, 3, 4, 5, 9, 10, 11, 12, 13, 14, 15, 16, 17 [Alternate], 18 [Alternate], and 19 [Alternate])
Impact NO-4. Project construction would not result in a substantial temporary increase in ambient noise levels along construction haul routes.	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	None required
Impact NO-5. Operation of the Project would result in exposure of people to noise levels in excess of local noise standards or result in a substantial permanent increase in ambient noise levels in the Project vicinity.	LSM	NI	NI	NI	LSM	LSM	NI	LS	LS	LSM	NI	LS	LSM	LS	LS	LSM	LS	NI	NI	LS	LS	LSM	NI	NI	M-NO-5: Operational Noise Control Measures (Sites 1, 5 [On-site Treatment], 7 [On-site Treatment], 9, 12, 18 [Alternate], and the Westlake Pump Station)
Impact C-NO-1. Construction and operation of the proposed Project could result in a cumulatively considerable contribution to cumulative impacts related to noise.	LSM	LS	LS	LS	LSM	LSM	LS	LS	LS	LSM	LS	LSM	LSM	LS	LSM	SUM	LS	LS	LS	LS	LSM	LSM	SUM	SUM	M-NO-1: Noise Control Plan (1, 3, 4, 5, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17 [Alternate], 18 [Alternate], and 19 [Alternate]) M-NO-3: Expanded Noise Control Plan (1, 3, 4, 5, 9, 10, 11, 12, 13, 14, 15, 16, 17 [Alternate], 18 [Alternate], and 19 [Alternate]) M-NO-5: Operational Noise Control Measures (Sites 1, 5 [On-site Treatment], 7 [On-site Treatment], 9, 12, 18 [Alternate], and the Westlake Pump Station)
Section 5.8 Air Quality																									
Impact AQ-1. Construction of the Project would not conflict with or obstruct implementation of applicable air quality plans.	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	None required

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Impact AQ-2. Emissions generated during construction activities would violate air quality standards and would contribute substantially to an existing air quality violation.	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	M-AQ-2a: BAAQMD Basic Construction Measures (All Sites) M-AQ-2b: NOx Reduction during Construction of Alternate Sites
Impact AQ-3. Project construction would expose sensitive receptors to substantial pollutant concentrations.	Group 1: Site 1 = LS Group 2: Sites 2, 3 and 4 = LS Group 3: Sites 5, 6 and 7 (Consolidated Treatment at Site 6) = LS Group 3: Sites 5, 6 and 7 (On-site Treatment) = LSM Group 4: Site 8 and Site 17 (Alternate) = LS Group 5: 9 and 10 and Site 18 (alternate) = LS Group 6: Sites 11 and 12 and Site 19 (Alternate) = LS Group 7: Site 13 = LS Group 8: Sites 14 and 15 = LS Group 9: Site 16 = LS																							M-AQ-3: Construction Health Risk Mitigation (Site 5 [On-site Treatment])	
Impact AQ-4. Project construction activities would not create objectionable odors affecting a substantial number of people.	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	None required
Impact AQ-5. Project operations would not violate air quality standards or contribute substantially to an existing air quality violation.	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	None required
Impact AQ-6. Project operations would not expose sensitive receptors to substantial pollutant concentrations.	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	None required
Impact AQ-7. Project operations would not create objectionable odors affecting a substantial number of people.	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	None required
Impact C-AQ-1. Construction and operation of the proposed Project could result in a cumulatively considerable contribution to cumulative impacts related to air quality.	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	M-AQ-2a: BAAQMD Basic Construction Measures (All Sites) M-AQ-2b: NOx Reduction during Construction of Alternate Sites
Section 5.9 Greenhouse Gas Emissions																									
Impact GG-1. Project construction would generate GHG emissions, but not at levels that would have a significant impact on the environment.	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	None required
Impact GG-2. Project operations would generate GHG emissions, but not at levels that would result in a significant impact on the environment.	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	None required
Impact C-GG. The proposed Project would not result in a cumulatively considerable contribution to GHG emissions.	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	None required
Section 5.10 Wind & Shadow - None. No impacts would occur.																									
Section 5.11 Recreation																									
Impact RE-1. The Project would not remove or damage existing recreational resources during construction.	LS	NI	LS	LS	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	None required
Impact RE-2. The Project would deteriorate the quality of the recreational experience during construction.	LSM	LSM	LS	LSM	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	LS	NI	LS	NI	NI	NI	NI	NI	NI	NI	M-AQ-2a: BAAQMD Basic Construction Measures (All Sites)
Impact RE-3. The Project would not impair access to recreational resources during construction.	NI	LS	LS	LS	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	LS	NI	LS	NI	NI	NI	NI	NI	NI	NI	None required
Impact RE-4. The Project would not damage recreational resources during operation.	NI	NI	LS	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	None required
Impact RE-5. The Project would not deteriorate the quality of the recreational experience during operation.	LS	NI	LS	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	LS	NI	LS	NI	NI	NI	NI	NI	NI	NI	None required
Impact RE-6. Operation of the Project would not remove or damage recreational resources, impair access to, or deteriorate the quality of the recreational experience at Lake Merced.	LS																							None required	
Impact C-RE-1. Construction and operation of the proposed Project would not result in significant cumulative impacts on recreational resources.	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	LS	NI	LS	NI	NI	NI	NI	NI	NI	NI	None required
Impact C-RE-2. Operation of the Project would not result in significant cumulative impacts on recreational resources at Lake Merced.	LS																							None required	

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Section 5.12 Utilities & Service Systems																									
Impact UT-1. Project construction could result in potential damage to or temporary disruption of existing utilities during construction.	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	M-UT-1a: Confirm Utility Line Information (All Sites) M-UT-1b: Safeguard Employees from Potential Accidents Related to Underground Utilities (All Sites) M-UT-1c: Notify Local Fire Departments (All Sites) M-UT-1d: Emergency Response Plan (All Sites) M-UT-1e: Advance Notification (All Sites) M-UT-1f: Protection of Other Utilities during Construction (All Sites) M-UT-1g: Ensure Prompt Reconnection of Utilities (All Sites) M-UT-1h: Avoidance of Utilities Constructed or Modified by Other SFPUC Projects (All Sites) M-UT-1i: Coordinate Final Construction Plans with Affected Utilities (All Sites)
Impact UT-2. Project construction would not exceed the capacity of wastewater treatment facilities, exceed wastewater treatment requirements, require or result in the construction of new or expansion of existing wastewater treatment facilities or stormwater drainage facilities, the construction of which could cause significant environmental effects.	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	None required
Impact UT-3. Project construction would not result in adverse effects on solid waste landfill capacity.	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	None required
Impact UT-4. Project construction could result in a substantial adverse effect related to compliance with federal, State and local statutes and regulations pertaining to solid waste.	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	M-UT-4: Waste Management Plan (All Sites)
Impact UT-5. Project operation would not exceed the capacity of wastewater treatment facilities, exceed wastewater treatment requirements, require or result in the construction of new or expansion of existing wastewater treatment facilities or stormwater drainage facilities, the construction of which could cause significant environmental effects.	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	None required
Impact C-UT-1. Construction and operation of the proposed Project could result in a cumulatively considerable contribution to cumulative impacts related to utilities and service systems.	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	M-UT-1a: Confirm Utility Line Information M-UT-1b: Safeguard Employees from Potential Accidents Related to Underground Utilities M-UT-1c: Notify Local Fire Departments M-UT-1d: Emergency Response Plan M-UT-1e: Advance Notification M-UT-1f: Protection of Other Utilities during Construction M-UT-1g: Ensure Prompt Reconnection of Utilities M-UT-1h: Avoidance of Utilities Constructed or Modified by Other SFPUC Projects M-UT-1i: Coordinate Final Construction Plans with Affected Utilities M-UT-4: Waste Management Plan
Section 5.13 Public Services - None. No impacts would occur.																									
Section 5.14 Biological Resources																									
Impact BR-1. Project construction would adversely affect candidate, sensitive or special-status species.	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	M-BR-1a: Protection Measures during Construction for Special-status Birds and Migratory Passerines and Raptors (All Sites) M-BR-1b: Protection Measures for Special-status Bats during Tree Removal or Trimming (Sites 1, 3, 4, 7, 10, 11, 12, 15, and 16) M-BR-1c: Protection Measures during Structure Demolition for Special-status Bats (Site 1) M-BR-1d: Monarch Butterfly Protection Measures (Sites 1, 3, 7, 10, and 12)
Impact BR-2. Project construction could adversely affect riparian habitat or other sensitive natural communities.	LSM	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	M-HY-1: Develop and Implement a Storm Water Pollution Prevention Plan (SWPPP) or an Erosion and Sediment Control Plan (All Sites) M-BR-2 Avoid Disturbance to Riparian Habitat (Site 1)
Impact BR-3. The Project would impact jurisdictional wetlands or waters of the United States	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	LSM	LSM	NI	LSM	NI	NI	NI	NI	NI	NI	NI	NI	NI	M-HY-1: Develop and Implement a Storm Water Pollution Prevention Plan (SWPPP) or an Erosion and Sediment Control Plan (All Sites)
Impact BR-4. Project construction would conflict with local tree preservation ordinances.	NI	NI	LSM	LSM	NI	NI	NI	NI	NI	LSM	LSM	NI	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	NI	LSM	LSM	NI	M-BR-4a: Identify Protected Trees (Sites 3, 4, 7, 10, 11, 12, 13, 14, 15, and 17 [Alternate]) M-AE-1b: Tree Protection Measures (Sites 3, 4, 7, 10, 11, 12, 13, 14, 15, and 17 [Alternate]) M-BR-4b: Protected Tree Replacement (Sites 4, 7, 9, 12, 15, and 18 [Alternate])

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Impact BR-5. Project operations could adversely affect candidate or sensitive special-status species.	LSM	NI	LS	LS	LSM	NI	NI	NI	NI	LSM	LS	NI	NI	LS	LS	LSM	LS	NI	LS	LS	LS	LSM	NI	M-NO-5: Operational Noise Control Measures (Sites 1, 5 [On-site Treatment], 7 [On-site Treatment], 9, 12, 18 [Alternate], and the Westlake Pump Station)	
Impact BR-6. Operation of the Project would adversely affect species identified as candidate, sensitive, or special-status wildlife species in local or regional plans, policies, or regulations, or by the CDFW or USFWS.												LS												None required	
Impact BR-7. Operation of the Project could adversely affect sensitive habitat types associated with Lake Merced.													LSM											M-BR-7: Lake Level Management for Water Level Increases for Lake Merced M-HY-9a: Lake Level Monitoring and Modeling for Lake Merced M-HY-9b: Lake Level Management for Lake Merced	
Impact BR-8. Operation of the Project could adversely affect wetland habitats and other waters of the United States associated with Lake Merced.													LSM											M-BR-8: Lake Level Management for No-Net-Loss of Wetlands for Lake Merced M-HY-9a: Lake Level Monitoring and Modeling for Lake Merced M-HY-9b: Lake Level Management for Lake Merced	
Impact BR-9. Operation of the Project could adversely affect native wildlife nursery sites associated with Lake Merced.													LSM											M-BR-7: Lake Level Management for Water Level Increases for Lake Merced M-HY-9a: Lake Level Monitoring and Modeling for Lake Merced	
Impact C-BR-1. Construction and operation of the proposed Project could result in significant cumulative impacts related to biological resources.	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	M-BR-1a: Protection Measures during Construction for Special-status Birds and Migratory Passerines and Raptors (All Sites) M-BR-1b: Protection Measures for Special-status Bats during Tree Removal or Trimming (Sites 1, 3, 4, 7, 10, 11, 12, 15, and 16) M-BR-1c: Protection Measures during Structure Demolition for Special-status Bats (Site 1) M-BR-1d: Monarch Butterfly Protection Measures (Sites 1, 3, 7, 10, 12) M-BR-2: Avoid Disturbance to Riparian Habitat (Site 1) M-BR-4a: Identify Protected Trees (Sites 3, 4, 7, 10, 11, 12, 13, 14, 15, and 17 [Alternate]) M-AE-1b: Tree Protection Measures (Sites 3, 4, 7, 10, 11, 12, 13, 14, 15, and 17 [Alternate]) M-BR-4b: Protected Tree Replacement (Sites 4, 7, 9, 12, 15, and 18 [Alternate]) M-HY-1: Develop and Implement a Storm Water Pollution Prevention Plan (SWPPP) or an Erosion and Sediment Control Plan (All Sites)
Impact C-BR-2. The Project would result in cumulative construction or operational impacts related to special-status species, riparian habitat, sensitive communities, wetlands, or waters of the United States, or compliance with local policies and ordinances protecting biological resources.													LSM											M-BR-7: Lake Level Management for Water Level Increases for Lake Merced M-HY-9a: Lake Level Monitoring and Modeling for Lake Merced M-HY-9b: Lake Level Management for Lake Merced	
Section 5.15 Geology and Soils																									
Impact GE-1. The Project would not be located on a geologic unit or soil that is unstable, or that would become unstable during construction.	NI	NI	NI	LS	NI	NI	NI	LS	LS	LS	LS	NI	NI	NI	NI	NI	NI	NI	NI	NI	LS	LS	NI	None required	
Impact GE-2. The Project would not substantially change the topography or any unique geologic or physical features of the site(s).	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	None required	
Impact GE-3. The Project would expose people or structures to substantial adverse effects related to the risk of property loss, injury, or death due to fault rupture, seismic groundshaking, or landslides.	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	M-GE-3: Conduct Site-Specific Geotechnical Investigations and Implement Recommendations (All Sites)	
Impact GE-4. The Project would be located on a geologic unit or soil that is unstable, or that would become unstable.	LSM	LS	LS	LS	LS	LSM	LSM	LS	LS	LS	LS	LSM	LS	LS	LS	LSM	LSM	LSM	LSM	LSM	LSM	LS	LSM	M-GE-3: Conduct Site-Specific Geotechnical Investigation and Implement Recommendations (All Sites)	
Impact GE-5. The Project would not be located on corrosive or expansive soil, creating substantial risks to life or property.	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	None required	
Impact C-GE-1. Construction and operation of the proposed Project could result in significant impacts related to soils and geology.	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	None required	
Section 5.16 Hydrology & Water Quality																									
Impact HY-1. Project construction activities would degrade water quality as a result of erosion or siltation caused by earthmoving activities or by the accidental release of hazardous construction chemicals during construction.	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	M-HY-1: Develop and Implement a Storm Water Pollution Prevention Plan (SWPPP) or an Erosion and Sediment Control Plan (All Sites)	
Impact HY-2. Discharge of groundwater could result in minor localized flooding, violate water quality standards, and/or otherwise degrade water quality.	LSM	LSM	LSM	LSM	NI	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	M-HY-2: Management of Well Development and Pump Testing Discharges (All Sites, Except Westlake Pump Station)	

Appendix C
Summary of Impacts and Mitigation Measures for the Groundwater Storage and Recovery Project

Impact Statement	Site 1	Site 2	Site 3	Site 4	WLP5	Site 5 (On-site)	Site 5 (Consol)	Site 6 (On-site)	Site 6 (Consol)	Site 7 (On-site)	Site 7 (Consol)	Site 8	Site 9	Site 10	Site 11	Site 12	Site 13	Site 14	Site 15	Site 16	Site 17 (A)	Site 18 (A)	Site 19 (A)	Mitigation	
Impact HY-3. Project operation would not alter drainage patterns in such a manner that could result in degraded water quality or cause on- or off-site flooding.	LS	LS	LS	LS	NI	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	None required
Impact HY-4. Project operations would not impede or redirect flood flows.	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	LS	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	None required
Impact HY-5. Project operations would not result in a violation of water quality standards or in the degradation of water quality from the discharge of groundwater during well maintenance.	LS	LS	LS	LS	NI	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	None required
Impact HY-6. Project operations would decrease the production rate of existing nearby irrigation wells due to localized groundwater drawdown within the Westside Groundwater Basin such that existing or planned land use(s) may not be fully supported.	SUM																					M-HY-6: Ensure Existing Irrigators' Wells Are Not Prevented from Supporting Existing or Planned Land Use Due to Project Operation			
M-HY-6. Mitigation Action #1: Improve Irrigation Efficiency, and Mitigation Action #2: Modify Irrigation Operations	NI = Land Use, Aesthetics, Population and Housing, Cultural and Paleontological Resources, Transportation and Circulation, Noise and Vibration, Air Quality, Greenhouse Gas Emissions, Wind and Shadow, Recreation, Utilities and Service Systems, Public Services, Biological Resources, Geology and Soils, Hydrology and Water Quality, Hazards and Hazardous Materials, Mineral and Energy Resources, Agriculture and Forest Resources																					None required			
M-HY-6. Mitigation Action #3: Redistribute GSR Pumping	NI = Land Use, Aesthetics, Population and Housing, Cultural and Paleontological Resources, Transportation and Circulation, Noise and Vibration, Air Quality, Greenhouse Gas Emissions, Wind and Shadow, Recreation, Utilities and Service Systems, Public Services, Biological Resources, Geology and Soils, Hazards and Hazardous Materials, Mineral and Energy Resources, Agriculture and Forest Resources LS = Hydrology and Water Quality																					None required			
M-HY-6. Mitigation Action #4: Reduce GSR Pumping	NI = Land Use, Aesthetics, Population and Housing, Cultural and Paleontological Resources, Transportation and Circulation, Noise and Vibration, Air Quality, Greenhouse Gas Emissions, Wind and Shadow, Recreation, Utilities and Service Systems, Public Services, Biological Resources, Geology and Soils, Hydrology and Water Quality, Hazards and Hazardous Materials, Mineral and Energy Resources, Agriculture and Forest Resources																					None required			
M-HY-6. Mitigation Action #5: Lower Pump in Irrigation Well and Mitigation Action #6: Lower and Change Pump in Irrigation Well	NI = Population and Housing, Cultural and Paleontological Resources, Wind and Shadow, Utilities and Service Systems, Public Services, Biological Resources, Geology and Soils, Hydrology and Water Quality, Mineral and Energy Resources, Agriculture and Forest Resources LS = Land Use, Transportation and Circulation, Noise and Vibration, Greenhouse Gas Emissions, Recreation LSM = Aesthetics, Air Quality, Hazards and Hazardous Materials																					M-AE-1a: Site Maintenance (Sites 4, 7, 12, 13, 14, 15, and 18 [Alternate]) M-AQ-2a: BAAQMD Basic Construction Measures (All Sites) M-HY-1: Develop and Implement a Stormwater Pollution Prevention Plan (SWPPP) or an Erosion and Sediment Control Plan (All Sites)			

Appendix C
Summary of Impacts and Mitigation Measures for the Groundwater Storage and Recovery Project

Impact Statement	Site 1	Site 2	Site 3	Site 4	WLPs	Site 5 (On-site)	Site 5 (Consol)	Site 6 (On-site)	Site 6 (Consol)	Site 7 (On-site)	Site 7 (Consol)	Site 8	Site 9	Site 10	Site 11	Site 12	Site 13	Site 14	Site 15	Site 16	Site 17 (A)	Site 18 (A)	Site 19 (A)	Mitigation	
M-HY-6. Mitigation Action #7: Add Storage Capacity for Irrigation Supply																									<p>M-AE-1a: Site Maintenance (Sites 4, 7, 12, 13, 14, 15, and 18 [Alternate])</p> <p>M-AE-3a: Implement Landscape Screening (Sites 4, 7, and 18 [Alternate])</p> <p>M-AQ-2a: BAAQMD Basic Construction Measures (All Sites)</p> <p>M-CR-2: Discovery of Archaeological Resources (All Sites except Westlake Pump Station)</p> <p>M-CR-3: Suspend Construction Work if a Paleontological Resource is Identified (All Sites except Site 9 and Westlake Pump Station)</p> <p>M-CR-4: Accidental Discovery of Human Remains (All Sites Except Westlake Pump Station)</p> <p>M-TR-1: Traffic Control Plan (Sites 2, 4, 5, 6, 7, 10, 12, 13, 14, 15, 17 [Alternate], 18 [Alternate], and 19 [Alternate])</p> <p>M-NO-1: Noise Control Plan (1, 3, 4, 5, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17 [Alternate], 18 [Alternate], and 19 [Alternate])</p> <p>M-NO-2: Reduce Vibration Levels during Construction of Pipelines (Sites 3, 4, 12, 15, and 18 [Alternate])</p> <p>M-UT-1a: Confirm Utility Line Information (All Sites)</p> <p>M-UT-1b: Safeguard Employees from Potential Accidents Related to Underground Utilities (All Sites)</p> <p>M-UT-1c: Notify Local Fire Departments (All Sites)</p> <p>M-UT-1d: Emergency Response Plan (All Sites)</p> <p>M-UT-1e: Advance Notification (All Sites)</p> <p>M-UT-1f: Protection of Other Utilities during Construction (All Sites)</p> <p>M-UT-1g: Ensure Prompt Reconnection of Utilities (All Sites)</p> <p>M-UT-1h: Avoidance of Utilities Constructed or Modified by Other SFPUC Projects (All Sites)</p> <p>M-UT-1i: Coordinate Final Construction Plans with Affected Utilities (All Sites)</p> <p>M-UT-4: Waste Management Plan (All Sites)</p> <p>M-BR-1a: Protection Measures during Construction for Special-status Birds and Migratory Passerines and Raptors (All Sites)</p> <p>M-BR-1b: Protection Measures for Special-status Bats during Tree Removal or Trimming (Sites 1, 3, 4, 7, 10, 11, 12, 15, and 16)</p> <p>M-BR-4a: Identify Protected Trees (Sites 3, 4, 7, 10, 11, 12, 13, 14, 15, and 17 [Alternate])</p> <p>M-BR-4b: Protected Tree Replacement (Sites 4, 7, 9, 12, 15, and 18 [Alternate])</p> <p>M-HY-1: Develop and Implement a Stormwater Pollution Prevention Plan (SWPPP) or an Erosion and Sediment Control Plan (All Sites)</p> <p>M-GE-3: Conduct Site-Specific Geotechnical Investigations and Implement Recommendations (All Sites)</p> <p>M-HZ-2a: Preconstruction Hazardous Materials Assessment (All Sites)</p> <p>M-HZ-2b: Health and Safety Plan (All Sites)</p> <p>M-HZ-2c: Hazardous Materials Management Plan (All Sites)</p>
M-HY-6. Mitigation Action #8: Replace Irrigation Well																									<p>M-AE-1a: Site Maintenance (Sites 4, 7, 12, 13, 14, 15, and 18 [Alternate])</p> <p>M-AE-3a: Implement Landscape Screening (Sites 4, 7, and 18 [Alternate])</p> <p>M-AQ-2a: BAAQMD Basic Construction Measures (All Sites)</p> <p>M-CR-2: Discovery of Archaeological Resources (All Sites except Westlake Pump Station)</p> <p>M-CR-3: Suspend Construction Work if a Paleontological Resource is Identified (All Sites Except Site 9 and Westlake Pump Station)</p> <p>M-CR-4: Accidental Discovery of Human Remains (All Sites Except Westlake Pump Station)</p> <p>M-TR-1: Traffic Control Plan (Sites 2, 4, 5, 6, 7, 10, 12, 13, 14, 15, 17 [Alternate], 18 [Alternate], and 19 [Alternate])</p> <p>M-NO-1: Noise Control Plan (1, 3, 4, 5, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17 [Alternate], 18 [Alternate], and 19 [Alternate])</p> <p>M-NO-2: Reduce Vibration Levels during Construction of Pipelines (Sites 3, 4, 12, 15, and 18 [Alternate])</p> <p>M-UT-1a: Confirm Utility Line Information (All Sites)</p> <p>M-UT-1b: Safeguard Employees from Potential Accidents Related to Underground Utilities (All Sites)</p> <p>M-UT-1c: Notify Local Fire Departments (All Sites)</p> <p>M-UT-1d: Emergency Response Plan (All Sites)</p> <p>M-UT-1e: Advance Notification (All Sites)</p> <p>M-UT-1f: Protection of Other Utilities during Construction (All Sites)</p> <p>M-UT-1g: Ensure Prompt Reconnection of Utilities (All Sites)</p> <p>M-UT-1h: Avoidance of Utilities Constructed or Modified by Other SFPUC Projects (All Sites)</p> <p>M-UT-1i: Coordinate Final Construction Plans with Affected Utilities (All Sites)</p> <p>M-UT-4: Waste Management Plan (All Sites)</p> <p>M-BR-1a: Protection Measures during Construction for Special-status Birds and Migratory Passerines and Raptors (All Sites)</p> <p>M-BR-1b: Protection Measures for Special-status Bats during Tree Removal or Trimming (Sites 1, 3, 4, 7, 10, 11, 12, 15, and 16)</p> <p>M-BR-4a: Identify Protected Trees (Sites 3, 4, 7, 10, 11, 12, 13, 14, 15, and 17 [Alternate])</p> <p>M-BR-4b: Protected Tree Replacement (Sites 4, 7, 9, 12, 15, and 18 [Alternate])</p> <p>M-HY-1: Develop and Implement a Stormwater Pollution Prevention Plan (SWPPP) or an Erosion and Sediment Control Plan (All Sites)</p> <p>M-HZ-2a: Preconstruction Hazardous Materials Assessment (All Sites)</p> <p>M-HZ-2b: Health and Safety Plan (All Sites)</p> <p>M-HZ-2c: Hazardous Materials Management Plan (All Sites)</p>

Appendix C
Summary of Impacts and Mitigation Measures for the Groundwater Storage and Recovery Project

Impact Statement	Site 1	Site 2	Site 3	Site 4	WLPs	Site 5 (On-site)	Site 5 (Consol)	Site 6 (On-site)	Site 6 (Consol)	Site 7 (On-site)	Site 7 (Consol)	Site 8	Site 9	Site 10	Site 11	Site 12	Site 13	Site 14	Site 15	Site 16	Site 17 (A)	Site 18 (A)	Site 19 (A)	Mitigation	
M-HY-6. Mitigation Action #9: Replace Irrigation Water Source	NI = Population and Housing, Cultural and Paleontological Resources, Wind and Shadow, Utilities and Service Systems, Public Services, Biological Resources, Geology and Soils, Hydrology and Water Quality, Hazards and Hazardous Materials, Mineral and Energy Resources, Agriculture and Forest Resources LS = Land Use, Transportation and Circulation, Noise and Vibration, Greenhouse Gas Emissions, Recreation LSM = Aesthetics, Air Quality																							M-AE-1a: Site Maintenance (Sites 4, 7, 12, 13, 14, 15, and 18 [Alternate]) M-AQ-2a: BAAQMD Basic Construction Measures (All Sites)	
Impacts of M-HY-9b: Lake Level Management for Lake Merced	LS = Well Interference, Subsidence, Seawater Intrusion, Adverse Effects on Beneficial Uses of Lake Merced, Water Quality Standards, Groundwater Depletion																							None required	
Impact HY-7. Project operations would not result in substantial land subsidence due to decreased groundwater levels in the Westside Groundwater Basin where the historical low water levels are exceeded.	LS																							None required	
Impact HY-8. Project operations could result in seawater intrusion due to decreased groundwater levels in the Westside Groundwater Basin.	LS																							None required	
Impact HY-9. Project operations could have a substantial, adverse effect on water quality that could affect the beneficial uses of Lake Merced.	LSM																							M-HY-9a: Lake Level Monitoring and Modeling for Lake Merced M-HY-9b: Lake Level Management for Lake Merced	
Impact HY-10. Project operation would not have a substantial adverse effect on water quality that could affect the beneficial uses of Pine Lake.	LS																							None required	
Impact HY-11. Project operation would not have a substantial adverse effect on water quality that could affect the beneficial uses of Colma Creek, San Bruno Creek, Lomita Channel, or Millbrae Creek.	LS																							None required	
Impact HY-12. Project operation would not cause a violation of water quality standards due to mobilization of contaminants in groundwater from changing groundwater levels in the Westside Groundwater Basin.	LS																							None required	
Impact HY-13. Project operation would not result in degradation of drinking water quality or groundwater quality relative to constituents for which standards do not exist.	LS																							None required	
Impact HY-14. Project operation may have a substantial adverse effect on groundwater depletion in the Westside Groundwater Basin over the very long term.	LSM																							M-HY-14: Prevent Groundwater Depletion	
Impact C-HY-1. Project construction could result in a cumulatively considerable contribution to cumulative impacts on surface water hydrology and water quality.	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	M-HY-1: Develop and Implement a Storm Water Pollution Prevention Plan (SWPPP) or an Erosion and Sediment Control Plan (All Sites) M-HY-2: Management of Well Development and Pump Testing Discharges (All Sites except Westlake Pump Station)
Impact C-HY-2. Operation of the proposed Project would result in a cumulatively considerable contribution to cumulative impacts related to well interference.	SUM																							M-HY-6: Ensure Irrigators' Wells Are Not Prevented from Supporting Existing or Planned Land Use Due to Project Operation	
Impact C-HY-3. Operation of the proposed Project would not result in a cumulatively considerable contribution to cumulative impacts related to subsidence.	LS																							None required	
Impact C-HY-4. Operation of the proposed Project would not have a cumulatively considerable contribution to seawater intrusion.	LS																							None required	
Impact C-HY-5. Operation of the proposed Project could have a cumulatively considerable contribution to cumulative impacts on beneficial uses of surface waters.	LSM																							M-HY-9a: Lake Level Monitoring and Modeling for Lake Merced M-HY-9b: Lake Level Management for Lake Merced	
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	LS																							None required	

**Appendix C
Summary of Impacts and Mitigation Measures for the Groundwater Storage and Recovery Project**

Impact Statement	Site 1	Site 2	Site 3	Site 4	WLPS	Site 5 (On-site)	Site 5 (Consol)	Site 6 (On-site)	Site 6 (Consol)	Site 7 (On-site)	Site 7 (Consol)	Site 8	Site 9	Site 10	Site 11	Site 12	Site 13	Site 14	Site 15	Site 16	Site 17 (A)	Site 18 (A)	Site 19 (A)	Mitigation	
Impact C-HY-7. Operation of the proposed Project would not result in a cumulatively considerable contribution to cumulative impacts related to water quality degradation.												LS													None required
Impact C-HY-8. Operation of the proposed Project would have a cumulatively considerable contribution to a cumulative impact related to groundwater depletion effect.												LSM													M-HY-14: Prevent Groundwater Depletion
Section 5.17 Hazards and Hazardous Materials																									
Impact HZ-1. The Project would not create a significant hazard to the public or the environment related to transport, use, or disposal of hazardous materials during construction.	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	None required
Impact HZ-2. The Project would result in a substantial adverse effect related to reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment during construction.	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	M-HZ-2a: Preconstruction Hazardous Materials Assessment (All Sites) M-HZ 2b: Health and Safety Plan (All Sites) M-HZ-2c: Hazardous Materials Management Plan (All Sites) M-HY-1: Develop and Implement a Storm Water Pollution Prevention Plan (SWPPP) or an Erosion and Sediment Control Plan (All Sites)
Impact HZ-3. The Project would result in impacts from the emission or use of hazardous materials within 0.25 mile of a school during construction.	NI	LSM	LSM	LSM	LSM	LS	LS	LS	LS	NI	NI	NI	LS	LS	NI	LS	LS	NI	NI	NI	NI	LS	LSM	M-HY-1: Develop and Implement a Storm Water Pollution Prevention Plan (SWPPP) or an Erosion and Sediment Control Plan (All Sites) M-HZ-2c: Hazardous Materials Management Plan (All Sites)	
Impact HZ-4. The Project would not create a hazard to the public or environment from the routine transport, use, or disposal of hazardous materials or accidental release of hazardous materials during operation.	LS	NI	NI	NI	LS	LS	NI	LS	LS	LS	NI	LS	LS	LS	LS	LS	LS	NI	LS	LS	LS	LS	LS	NI	None required
Impact HZ-5. The Project would not result in impacts from the emission or use of hazardous materials within 0.25 mile of a school during operation.	NI	NI	NI	NI	LS	LS	NI	NI	NI	NI	NI	NI	LS	LS	NI	LS	LS	NI	NI	NI	NI	LS	NI	None required	
Impact HZ-6. The Project would not result in a safety hazard for people residing or working in the vicinity of a public use airport.	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	LS	LS	LS	LS	LS	LS	LS	LS	LS	NI	LS	LS	None required
Impact HZ-7. The Project would not expose people or structures to a significant risk of loss, injury, or death involving fires.	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	None required
Impact C-HZ-1. Construction and operation of the proposed Project could result in a cumulatively considerable contribution to cumulative impacts related to hazards and hazardous materials.	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	LSM	M-HZ-2a: Preconstruction Hazardous Materials Assessment (All Sites) M-HZ 2b: Health and Safety Plan (All Sites) M-HZ-2c: Hazardous Materials Management Plan (All Sites) M-HY-1: Develop and Implement a Storm Water Pollution Prevention Plan (SWPPP) or an Erosion and Sediment Control Plan (All Sites)
Section 5.18 Mineral and Energy Resources																									
Impact ME-1. The Project would not encourage activities that result in the use of large amounts of fuel and energy in a wasteful manner during construction.	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	None required
Impact ME-2. The Project would not encourage activities that result in the use of large amounts of fuel and energy in a wasteful manner during operation.	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	None required
Impact C-ME-1. Construction and operation of the proposed Project would not result in a cumulatively considerable contribution to cumulative impacts related to mineral and energy resources.	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	LS	None required
Section 5.19 Agriculture and Forest Resources - None. No impacts would occur.																									