

# Chapter 4

## St. Helena Mitigation Monitoring and Reporting Plan

This section identifies the Mitigation Monitoring and Reporting Plan (MMRP) for the City of St. Helena Comprehensive Flood Protection Project. The purpose of the MMRP is to ensure that measures adopted to mitigate or avoid significant impacts are effectively implemented. This is achieved by describing the mitigation monitoring program for the proposed project elements, and identifying the roles and responsibilities of government agencies in implementing and enforcing the adopted mitigation measures. The MMRP provides the recommended framework for Lead Agency monitoring and reporting on the implementation of mitigation measures defined under the California Environmental Quality Act (CEQA). Public Resources Code, Section 21081.6, requires a public agency to adopt an MMRP when it approves an environmental review document under CEQA that specifies mitigation measures to reduce environmental effects that would otherwise be significant.

**Draft  
Mitigation Monitoring and Reporting Plan**

<b>Impact</b>	<b>Mitigation Measure</b>	<b>Monitoring/Reporting Action</b>	<b>Agency Responsible for Compliance</b>	<b>Timing</b>	<b>Checkoff Date/Initials</b>
<p><b>Impact AE-1</b> Construction of the Project over 3-4 years would detract from the visual character of the area during that period.</p>	<p><b>AE-1a</b> Fencing will be placed around the contractor's staging area to block views of stored materials and equipment.  <b>AE-1b</b> The contractor will be required to perform a cleanup of the construction area on a weekly basis.  <b>NO-1b</b> The construction contractor will install a noise barrier/curtain that must completely break the line-of-sight between the noise source and the receptors, and that is free of holes or gaps. This mitigation measure would also provide mitigation for impact AE – 1.</p>	<p>The construction contract plans and specifications will contain conditions addressing maintenance of the construction area and clearly delineate boundaries of staging area and define acceptable work practices, including the requirement for fencing and noise barriers.</p> <p>City staff shall inspect the site once per month while construction is underway and provide a written report to the Planning Director regarding the contractor's implementation of Mitigation Measure AE-1a, AE-1b and NO-1b.</p>	City of St. Helena	The three to four year construction period.	AE-1a AE-1b AE-1c
<p><b>Impact AE-3</b> Construction of the Adams Street extension, causeway and bridge; VVMHP floodwall; and WWTP floodwall would change views from the river, the VVMHP, the Hunts Grove apartments, and generally in the vicinity of the project area.</p>	<p><b>AE-3a</b> Landscaping measures shall be implemented for the VVMHP levee/floodwall, and the WWTP levee to improve the appearance of the flood control structures. Landscaping should include fast growing species in order to rapidly establish a more attractive view.  <b>AE-3b</b> The City of St. Helena Design Review process shall incorporate public input into the development of the final design of the Adams Street causeway and bridge concurrent with the project level environmental analysis.</p>	<p>A Landscaping Plan will be developed specifying activities required to achieve the desired plant community near the VVMHP levee/floodwall and the WWTP levee. The Landscaping Plan will specify the type, and quantity, of plants to be incorporated into the landscaped areas.</p> <p>The Landscaping Plan shall be submitted to the Planning Director for review prior to implementation.</p>	City of St. Helena	A period of approximately five years after the construction is complete to allow establishment of the vegetation on the levee.	AE-3a AE-3b
<p><b>Impact AQ-1</b> Construction of the project would result in PM<sub>10</sub> emissions.</p>	<p><b>AQ-1a</b> Water all active construction areas at least twice daily.  <b>AQ-1b</b> Pave, apply water three times daily, or apply (non-toxic) soil stabilizers on all unpaved access roads, parking areas and staging areas at construction sites.  <b>AQ-1c</b> Cover all trucks hauling soil, sand, and other loose materials or require all trucks to maintain at least two feet of freeboard.  <b>AQ-1d</b> Sweep daily (with water sweepers) all paved access roads, parking areas and staging areas at construction sites.</p>	<p>Construction contract specifications will list the mitigation measures that will be adhered to during the grading operations.</p> <p>City staff shall inspect the site once per month while construction is underway and provide a written report to the Planning Director regarding the contractor's implementation of Mitigation Measures AQ-1a through AQ-1o.</p>	The City of St. Helena in consultation with the BAAQMD, as needed.	The three to four year construction period.	AQ-1a AQ-1b AQ-1c AQ-1d

Impact	Mitigation Measure	Monitoring/Reporting Action	Agency Responsible for Compliance	Timing	Checkoff Date/Initials
	<p><b>AQ-1e</b> Sweep streets daily (with water sweepers) if visible soil material is carried onto adjacent public streets.</p> <p><b>AQ-1g</b> Hydroseed or apply (non-toxic) soil stabilizers to inactive construction areas (previously graded areas inactive for ten days or more).</p> <p><b>AQ-1h</b> Enclose, cover, water twice daily or apply (non-toxic) soil binders to exposed stockpiles (dirt, sand, etc.)</p> <p><b>AQ-1i</b> Limit traffic speeds on unpaved roads to 15 mph.</p> <p><b>AQ-1j</b> Install sandbags or other erosion control measures to prevent silt runoff to public roadways.</p> <p><b>AQ-1k</b> Replant vegetation in disturbed areas as quickly as possible.</p> <p><b>AQ-1l</b> Suspend excavation and grading activity when winds (instantaneous gusts) exceed 25 mph.</p> <p><b>AQ-1m</b> Limit the area subject to excavation, grading and other construction activity at any one time.</p> <p><b>AQ-1n</b> Install wheel washers for all exiting trucks, or wash off the tires or tracks of all trucks and equipment leaving the site.</p> <p><b>AQ-1o</b> Vegetative material should be chipped or delivered to waste or energy facilities.</p>				<p>AQ-1e</p> <p>AQ-1f</p> <p>AQ-1g</p> <p>AQ-1h</p> <p>AQ-1i</p> <p>AQ-1j</p> <p>AQ-1l</p> <p>AQ-1m</p> <p>AQ-1n</p> <p>AQ-1o</p>
<p><b>Impact AQ-2</b> Construction of the project would result in NO<sub>x</sub> and ROG emissions.</p>	<p><b>AQ-2a</b> Require the prime contractor to provide an approved plan demonstrating that heavy-duty off-road vehicles to be used in the construction project, and operated by either the prime contractor or any subcontractor, will achieve, at a minimum, a fleet-averaged 20 percent NO<sub>x</sub> and ROG reduction compared to the most recent CARB fleet average.</p> <p><b>AQ-2b</b> Stipulate that the prime contractor will ensure emissions from all off-road diesel powered equipment used on the project site do not exceed 40 percent opacity for more than three minutes in any one hour. As an enforcement component of the measure, the prime contractor is required to agree to conduct a visual survey of all in-operation equipment conducted on a periodic basis. In addition, a summary of the visual results is submitted monthly throughout the duration of the construction activity.</p>	<p>The construction plans and specifications will require the contractor to develop an Equipment Plan identifying the estimated NO<sub>x</sub> and ROG emissions from the contractor's heavy equipment fleet. A program to sample and analyze emissions throughout the construction period to confirm the contractor's data will be included in the Plan. Information will be provided demonstrating the contractor's fleet emissions in comparison with the current CARB fleet average.</p>	<p>The City of St. Helena in consultation with BAAQMD, as required.</p>	<p>The three to four year construction period.</p>	<p>AQ-2a</p> <p>AQ-2b</p>

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		<p>The contractor shall establish protocols in the Equipment Plan for conducting visual observations of the fleet's emissions with respect to opacity. The protocols to include the frequency of observations and the requirement to submit written documentation of the observations on a monthly basis. The Equipment Plan shall be approved and implemented prior to the initiation of construction activities.</p> <p>City staff shall inspect the site once per month while construction is underway and provide a written report to the Planning Director regarding the contractor's implementation of Mitigation Measures AQ-2a and AQ-2b.</p>			
<p><b>Impact BIO-1</b> The project has the potential to impact vegetation and wildlife during construction. (For a discussion of special-status species impacts see Impact BIO-3.)</p>	<p><b>BIO-1a</b> Limit construction crews to the right-of-way and confinement of disturbance to as small an area as possible. <b>BIO-1b</b> Avoid effects to woody vegetation at all construction sites, staging areas, borrow sites, and haul routes by fencing them with orange construction fencing. Construction fencing will be placed at 1.5 times the distance of the trunk to the dripline. No vehicles or storage of equipment or supplies will be placed within the zone delineated by the construction fencing. <b>BIO-1c</b> Minimize effects to trees along the construction area by having all trimming performed by a qualified arborist to ensure tree survival after the project. In addition, a Tree Protection Plan will be prepared establishing measures required to safeguard trees from the impacts of construction activities.</p>	<p>The construction plans and specifications will establish requirements for contractor staging areas, haul routes, vehicular speed limits, construction fencing and other activities associated with protection of the vegetation and wildlife during construction.</p> <p>The Tree Protection Plan will be prepared documenting the requirements to protect the trees during construction. The construction plans will delineate which trees may be removed to implement the design of the flood control features.</p> <p>The nest survey findings will be compared with the construction plans to identify trees with nests that may be impacted by construction activities.</p>	<p>The City of St Helena with consultation with CDFG.</p>	<p>The three to four year construction period and two years after construction to verify that the riparian habitat has been established in the construction areas.</p>	<p>BIO-1a BIO-1b BIO-1c</p>

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	<p><b>BIO-1d</b> Conduct nest surveys prior to the removal of any trees or scrub shrub to ensure migratory and other birds would not be lost during construction, pursuant to the MBTA and California Fish and Game Code section 3513. Nest surveys shall be conducted in the spring and shall be adequate to ensure protection of the nests of as many birds and bird species as possible during construction. Any trees that contain nests will be removed between August 16th and February 15th (outside of the nesting season). During construction activities potentially affecting trees where birds have nested, buffer zones will be established, within which there will be no construction activity until the young have fledged. The size of the buffer zones shall be determined in consultation with DFG, but shall be at least 75 feet for trees containing songbird nests and 275 feet for trees containing raptor nests.</p> <p><b>BIO-1e</b> In implementing all mitigation measures addressing biological impacts, the City shall ensure that it does not: substantially reduce the habitat of a fish or wildlife species; cause a fish or wildlife population to drop below self-sustaining levels; threaten to eliminate a plant or animal community; or reduce the number over time or restrict the range of an endangered, rare or threatened species.</p> <p><b>BIO-1f</b> Require construction crews to maintain a 15-m.p.h. speed limit on all unpaved roads to avoid the chance of wildlife being harmed. A 15- mph speed limit will with allow wildlife to avoid the path of vehicles, or allow vehicle operators to see the wildlife and have sufficient time to avoid a collision.</p>	<p>The Tree Protection Plan shall be submitted to the Planning Director for review prior to implementation.</p> <p>Results of nest surveys, including proposed buffer areas around identified nests, will be provided to CDFG.</p> <p>A Revegetation Plan will be prepared for construction with the details of design, planting species, densities, irrigation system requirements, and performance. An annual survey of plant communities under the Adaptive Management Plan to document plant development, species composition, and diversity as compared with the Revegetation Plan requirements.</p> <p>City staff shall inspect the site once per month while construction is underway and provide a written report to the Planning Director regarding the implementation of Mitigation Measures BIO-1a through BIO-1f.</p>			<p>BIO-1d BIO-1e BIO-1f</p>
<p><b>Impact BIO-2</b> The Project has the potential to impact fisheries during construction. (For specific impacts to steelhead and Chinook salmon see Impact BIO-3.)</p>	<p><b>BIO-1a &amp; BIO-1e</b> <b>BIO-2a</b> Avoid Effects to Napa River's aquatic habitat by taking appropriate measures, as outlined in the Stormwater Pollution Prevention Plan (SWPPP) (see mitigation measure HWQ-5a), to prevent construction materials from spilling or otherwise entering the River.</p>	<p>Preparation of a SWPPP specifying the Best Management Practices (BMPs) to be implemented by the construction contractor. Conditions will be established in the contract specifications outlining the need to prepare the SWPPP and to follow the BMPs as approved. The approved construction schedule will reflect consecution phasing precluding heavy earth moving activities during the winter and spring months.</p>	<p>The City of St. Helena and the RWQCB, which oversees the implementation of the NPDES permit.</p>	<p>The three to four year construction period.</p>	<p>BIO-2a</p>

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	<p><b>BIO-2b</b> Avoid construction activities within, or near, the Napa River that may cause deposition of material into the bankfull channel of the Napa River streambed from October 16 through June 14.</p> <p><b>BIO-2c</b> A dewatering plan shall at a minimum, include a description of 1) the method(s) by which dewatering will be accomplished, and 2) specific methods that will be used to minimize potential impacts to the river environment and aquatic species, including: minimization of the size of dewatered work areas, minimization of stranding of aquatic species in the dewatered area, relocation of aquatic species by qualified biologist where necessary, and timely restoration of the river to its normal location. The plan shall be prepared in coordination with NOAA Fisheries, USFWS and CDFG.</p>	<p>Preparation of the Spill Prevention and Pollution Control Plan detailing protocols for on-site management of hazardous construction materials.</p> <p>The Spill Prevention and Pollution Control Plan shall be submitted to the Planning Director for review prior to implementation.</p> <p>Preparation of the Dewatering Plan addressing methods of dewatering to facilitate construction. The Dewatering Plan shall be submitted to the Planning Director for review prior to implementation. Once dewatering is complete for the season, a report shall be provided to the Planning Director noting any problems that occurred during the process. Such information shall be used by the City to revise the dewatering plan, if necessary.</p> <p>City staff shall inspect the site once per month while construction is underway and provide a written report to the Planning Director regarding the implementation of Mitigation Measures BIO-2a through BIO-2c.</p>	<p>Coordination with NOAA Fisheries, USFWS and CDFG on the preparation and performance of the Dewatering Plan.</p>		<p>BIO-2b BIO-2c</p>
<p><b>Impact BIO-3</b> The project could impact special-status species during construction.</p>	<p><b>BIO-1a through BIO-1f</b> <b>BIO-2a through BIO-2c</b> <b>BIO-3a</b> A seasonally appropriate survey shall be conducted in all upland areas within the project area to identify and mark pond turtle use in upland habitat. Should construction occur in utilized areas, it will be considered sensitive and buffered from construction activities using exclusion fencing. Should pond turtles be present in this marked upland habitat during construction, the qualified biologist, in consultation with Fish and Game, will relocate pond turtles to designated sites as needed.</p>	<p>The following field surveys will be performed, and documented, to monitor and report impacts to special-status species:</p> <ul style="list-style-type: none"> <li>■ Seasonal identification of upland mark pond turtle habitat.</li> <li>■ Daily survey during instream construction activities to assess impacts on the Northwestern pond turtle.</li> <li>■ VELB survey to determine presence of VELB.</li> <li>■ Elderberry shrub survey prior to removal of the shrub.</li> <li>■ Dive or dipnet survey in late spring to assess presence of steelhead and Chinook salmon, and freshwater shrimp.</li> <li>■ Preconstruction surveys prior to construction activities within the Napa River assessing presence of steelhead and Chinook salmon, Northwestern pond turtle, and freshwater shrimp.</li> </ul>	<p>The City of St. Helena in consultation with the Corps on the CWA 404 permit.</p> <p>Coordination with NOAA Fisheries, CDFG and USFWS on implementation of survey findings.</p>	<p>The year prior to construction to perform the preconstruction field surveys and the 3-4 year construction period.</p>	<p>BIO-3a</p>

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	<p><b>BIO-3b</b> If surveys reveal that VELB are present within the project area, the City shall conduct transplantation and mitigation activities for VELB using the <i>Conservation Guidelines for the Valley Elderberry Longhorn Beetle</i>. In accordance with these guidelines, any removed elderberry bushes shall be replanted in a location as near as possible to the site from which they were removed. Removal and transplanting of project-impacted elderberry plants shall occur in the dormant season, from November 15th to February 15th, to minimize impacts to these plants. If VELB are present in the project area, no trimming or removal of elderberry bushes shall occur during construction.</p> <p><b>BIO-3c</b> To avoid potential impacts to the Northwestern pond turtle during ongoing instream construction activities, daily surveys by a qualified biologist prior to grading or movement of the equipment shall be conducted. Should pond turtles be present in the instream construction area, the qualified biologist, in consultation with Fish and Game, will relocate pond turtles to designated sites as needed. In addition, a qualified biologist will be onsite to monitor construction activities in areas that provide suitable upland habitat for the pond turtle.</p> <p><b>BIO-3d</b> Conduct elderberry shrub surveys prior to the removal of any vegetation to ensure an accurate count of stems and their sizes lost due to construction to ensure adequate mitigation.</p> <p><b>BIO-3e</b> Conduct a dive and/or dipnet survey and a habitat typing assessment in late spring to confirm the presence or absence of steelhead and Chinook salmon and freshwater shrimp.</p>	<p>Field survey results will be submitted to City staff for review, and then the appropriate resources agency in conjunction with the CWA 404 permit application and consultation under Section 7 of the ESA, and in conjunction with CESA compliance.</p> <p>A log of any relocation efforts with regard to turtles or elderberry bushes shall be prepared and provided to the Planning Director on a monthly basis during construction.</p> <p>City staff shall provide a written report to the Planning Director regarding the implementation of Mitigation Measures BIO-3a through BIO-3g prior to the start of construction and during each month construction occurs.</p>			<p>BIO-3b BIO-3c BIO-3d BIO-3e</p>

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	<p><b>BIO-3f</b> To avoid potential impact to federal- and state-listed and species during construction, the City shall apply for and obtain a CWA 404 permit from the Corps (who will consult with NOAA Fisheries and USFWS under Section 7 of the ESA) and a streambed alteration agreement from CDFG for any activities deemed to require such permits from those agencies. Consultation will determine whether the Proposed Project is likely to adversely affect listed species or critical habitat. If consultation results in a determination that the Proposed Project may result in the take of listed species, a Section 7 permit will be required. The City shall also informally consult with NOAA Fisheries and USFWS as needed to incorporate appropriate avoidance measures into the final design.</p> <p><b>BIO-3g</b> Conduct preconstruction surveys no more than 10 days prior to the commencement of any construction activities within the ordinary high water mark of the Napa River to confirm the presence or absence of steelhead and Chinook salmon, Northwestern pond turtle, and freshwater shrimp.</p>				<p>BIO-3f BIO-3g</p>
<p><b>Impact BIO-4</b> Operation and maintenance of the flood control improvements could impact vegetation and wildlife.</p>	<p><b>BIO-4a</b> If surveys reveal that VELB are present in the project area, no trimming or removal of elderberry bushes shall occur during operation and maintenance of the project, unless authorized by USFWS.</p> <p><b>BIO-4b</b> If surveys reveal that VELB are present in the project area, no herbicides shall be applied within 25 feet of any elderberry bush.</p>	<p>Performance of a VELB survey to determine presence of VELB and an elderberry shrub survey prior to removal of the shrub.</p> <p>Each year that maintenance activity occurs in the vicinity of VELB habitat, a report shall be provided to the Planning Director confirming that Mitigation Measures BIO-4a and BIO-4b were complied with.</p>	<p>The City of St. Helena in consultation with USFWS.</p>	<p>Ongoing following completion of construction of the project.</p>	<p>BIO-4a BIO-4b</p>
<p><b>Impact BIO-5</b> Operation of the project during flooding could strand fish.</p>	<p><b>BIO-5a</b> The City will monitor the terraces after high flood flow events. In the event stranding is observed, the monitoring personnel will contact CDFG and NOAA Fisheries. An authorized and qualified biologist will then commence rescue operations.</p>	<p>A monitoring program describing protocols to perform terrace observation and relocate stranded fish will be prepared prior to opening the terraces. This program shall be provided to the City, CDFG and NOAA Fisheries. Success of the project in avoiding and responding to stranding will also be documented in reporting for the Adaptive Management Plan.</p>	<p>The City of St. Helena with coordination with CDFG and NOAA Fisheries.</p>	<p>The period following completion of the project, specifically after high-flow events.</p>	<p>BIO-5a</p>

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<p><b>Impact CU-1</b> Excavation and soil movement during construction could impact historical resources and/or unique archaeological resources.</p>	<p><b>CU – 1a</b> A visual survey will be performed by a qualified archaeologist prior to the initiation of earth moving activities. If cultural and/or historic resources are identified within the area to be impacted by the grading activities, a site-specific mitigation plan will be developed.</p> <p><b>CU - 1b</b> In the event that unique archaeological resources or historical resources are encountered, the qualified archaeologist will have the authority to divert or temporarily halt construction activities in the area of discovery to allow an archaeological testing program to record, collect and evaluate the resources. A representative sample of the collection, along with a testing report, will be deposited into a local qualified repository for retention and curation.</p>	<p>The construction monitor will prepare a report with the appropriate graphics, summarizing the results, analyses, and conclusions of the visual survey.</p> <p>Based on the results of the visual survey a site-specific mitigation plan will be formulated to protect and preserve cultural resources.</p> <p>The report and site-specific mitigation plan shall be provided to the Planning Director prior to construction.</p> <p>If archaeological resources are encountered, a report regarding how the find was addressed shall be provided to the Planning Director and a testing report will be prepared and deposited in a repository for retention and curation.</p>	<p>City of St. Helena in consultation with the State Historic Preservation Officer and the Native American Heritage Commission.</p>	<p>The three to four year construction period.</p>	<p>CU-1a CU-1b</p>
<p><b>Impact CU-2</b> Excavation and soil movement during construction could lead to the discovery of human remains.</p>	<p><b>CU – 2</b> In the event of the accidental discovery or recognition of any human remains in any location other than a dedicated cemetery, there shall be no further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent human remains until several conditions are met. Under certain conditions, the landowner or his authorized representative shall rebury the Native American human remains and associated grave goods with appropriate dignity on the property in a location not subject to further subsurface disturbance.</p>	<p>The county coroner will be contacted to make the determination that no investigation into the cause of death is required. The coroner will contact the Native American Heritage Commission if the remains are determined to be Native American in origin.</p> <p>If human remains are encountered, a report regarding how the find was addressed shall be provided to the Planning Director.</p>	<p>City of St. Helena and the county coroner's office; the Native American Heritage Commission if the remains are determined to be of Native American origin.</p>	<p>The three to four year construction period.</p>	<p>CU-2</p>
<p><b>Impact GEO-2</b> Construction of the project could cause erosion and loss of topsoil.</p>	<p><b>GEO-2a</b> An NPDES permit will be obtained prior to construction activity. The NPDES permit requires the preparation of a storm water pollution prevention plan (SWPPP). Best Management Practices (BMPs) will be applied to the construction site as documented in the SWPPP. Major portions of the SWPPP include measures to control erosion and sediment transport.</p>	<p>Preparation of a Storm Water Pollution Prevention Plan specifying the BMPs to be implemented by the construction contractor. Conditions will be established in the contract specifications outlining the need to prepare the SWPPP and to follow the BMPs as approved.</p> <p>The construction contract specifications will specify conditions associated with construction activities with the potential for removing topsoil and causing erosion. Finally, the construction schedule submitted by the contractor will reflect the heavy grading activities to be performed during the dry season.</p>	<p>The City of St. Helena and the RWQCB, which oversees the implementation of the NPDES, permit.</p>	<p>The three to four year construction period.</p>	<p>GEO-2a</p>

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	<p>The SWPPP will include a site map depicting the areas of soil disturbance in the vicinity of Terrace A and B and at the confluence of the Napa River and Sulphur Creek. The map will depict drainage patterns resulting from grading activities and identify control practices to be utilized during the construction period. Construction crews may install such measures as hay bales, water bars, covers, and sediment fences to protect exposed soil through the rainy season.</p> <p><b>GEO-2b</b> Construction activities that increase the potential for soil erosion shall be limited to the dry season.</p>	<p>City staff shall inspect the site once per month while construction is underway and provide a written report to the Planning Director regarding the contractor's implementation of Mitigation Measure GEO-2a and GEO-2b.</p>			GEO-2b
<p><b>Impact HHM – 1</b> Construction of the project could result in the release of hazardous materials.</p>	<p><b>HHM-1a</b> Minimize the overall supply of raw materials to prevent overstocking.  <b>HHM-1b</b> Maintain vehicles and equipment at a single, central location.  <b>HHM-1c</b> The construction contractor will be required to prepare Health and Safety and Storm Water Pollution Prevention (SWPPP) plans for use during construction. These plans will include, but not be limited to, CalOSHA requirements, measures to train employees and measures to transport, store, handle, and dispose of hazardous materials and wastes. In addition, the SWPPP will include a section for containing, cleaning, and reporting hazardous spills.  <b>HHM – 1d</b> Hazardous materials and/or wastes will be doubly contained when stored onsite.  <b>HHM – 1e</b> Construction contractors will be required to have spill response equipment available at the jobsite. Any spills occurring at this site will be fully contained and cleaned up immediately.  <b>HHM – 1f</b> Used oil will be recycled if possible. If no recycling is available, the oil will be properly disposed.  <b>HHM – 1g</b> Petroleum products such as waste gasoline, diesel or kerosene, will be recycled if possible. If no recycling is available, the petroleum products will be properly disposed.  <b>HHM-1h</b> Protocols for managing contaminated soil encountered during grading operations will be provided in the contract specifications. These specifications will establish procedures for the sampling, excavation, hauling, disposal, and reporting of contaminated soils.</p>	<p>Health and Safety and Spill Prevention and Pollution Control plans will be prepared by the construction contractor detailing protocols for managing hazardous materials on site and responding to releases of these materials. Employee training requirements, and measures to transport, store, handle, and dispose of hazardous materials will be included in the plans.</p> <p>The construction plans and specifications will identify a centralized contractor staging area to limit the area used to maintain vehicles. The construction contract specifications will require compliance with all HHM mitigation measures.</p> <p>City staff shall inspect the site once per month while construction is underway and provide a written report to the Planning Director regarding the contractor's implementation of Mitigation Measure HHM-1a through HHM-1h.</p>	<p>The City of St. Helena in consultation with RWQCB and CalOSHA.</p>	<p>The three to four year construction period.</p>	<p>HHM-1a HHM-1b HHM-1c HHM-1d HHM-1e HHM-1f HHM-1g HHM-1h</p>

<b>Impact</b>	<b>Mitigation Measure</b>	<b>Monitoring/Reporting Action</b>	<b>Agency Responsible for Compliance</b>	<b>Timing</b>	<b>Checkoff Date/Initials</b>
<p><b>Impact HWQ-5</b> The construction phase of the project could degrade water quality.</p>	<p><b>HWQ-5a</b> An NPDES permit will be obtained prior to the initiation of construction activities. The permit includes the requirement to prepare a SWPPP. The SWPPP will include a site map depicting the areas of soil disturbance in the vicinity of the earth moving operations at Terraces A and B and the confluence of the Napa River and Sulphur Creek, and will specify the locations where the construction contractor can store construction materials and maintain equipment. The map will depict drainage patterns and identify the BMPs that will be implemented in each of these areas: earth moving operations, storage and handling of construction materials, and operation and maintenance of construction equipment and vehicles. <b>HWQ-5b</b> The City shall document measures to control on site spills in the SWPPP. <b>HWQ-5c</b> The City shall obtain a Clean Water Act Section 404 permit and a Section 401 water quality certification for all activities involving the dredging or filling of waters of the United States, and shall comply with all requirements instituted pursuant to such permit.</p>	<p>Preparation of a SWPPP specifying the BMPs to be implemented by the construction contractor.</p> <p>Preparation of a Spill Prevention and Pollution Control Plan identifying management practices for materials with the potential to degrade water quality and emergency response protocols for releases.</p> <p>The contract plans and specifications designating equipment staging and maintenance areas and dust control practices.</p> <p>City staff shall inspect the site once per month while construction is underway and provide a written report to the Planning Director regarding the contractor's implementation of Mitigation Measures HWQ-5a through HWQ-5c, including compliance with the conditions of the approved SWPPP and the 401 water quality certification.</p>	<p>The City of St. Helena in consultation with RWQCB and the Corps.</p>	<p>The three to four year construction period.</p>	<p>HWQ-5a HWQ-5b HWQ-5c</p>
<p><b>Impact NO-1</b> Noise from construction equipment could exceed recommended County Code levels during construction.</p>	<p><b>NO-1a</b> The construction contractor will outfit and maintain construction equipment operating near noise sensitive receptors with noise-reduction devices such as high-efficiency mufflers to minimize construction noise. <b>NO-1b</b> The construction contractor will install a noise barrier/curtain that must completely break the line-of-sight between the noise source and the receptors, and that is free of holes or gaps. <b>NO-1c</b> According to General Plan Policy 8.3.11, noisy construction operations must be limited to weekdays 8:00 a.m. to 5:00 p.m. Phasing of the construction of project elements during these times would limit the magnitude of construction noise at any one time.</p>	<p>The construction contract plans and specifications will define construction operating times, maximum equipment noise levels to assure mufflers are working properly, and a specified equipment staging area.</p> <p>Construction monitoring will include measuring of noise levels at locations of sensitive receptors.</p> <p>City staff shall inspect the site once per month while construction is underway and provide a written report to the Planning Director regarding the contractor's implementation of Mitigation Measures NO-1a through NO-1c.</p>	<p>The City of St. Helena.</p>	<p>The three to four year construction period.</p>	<p>NO-1a NO-1b NO-1c</p>

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<b>Impact NO-4</b> Traffic noise from Adams Street extension, causeway, and bridge would create a new noise source in the area once Adams Street was connected to Silverado Trail.	<b>NO-4a</b> The city shall reduce noise levels to a decibel level below 60 for areas identified as exceeding the significance criterion in Table 3-11. This may be accomplished through construction of a noise barrier (wall), which can reduce noise levels by 5 decibels once it is taller than the line-of-sight from the roadway to the receiver. Additional height above the line-of-sight would add approximately 1.5 decibels/meter to the total noise reduction. The noise impacts could also be mitigated through use of rubberized asphalt to reduce the noise levels produced, and/or vegetative plantings or an earth berm to lessen the noise impact at the receptor.	Adams Street extension, causeway, and bridge design to provide design elements that reduce noise levels to 60 decibels or below. Such elements shall be incorporated into the City's future project approval(s) for the Adams Street extension, causeway and bridge.	The City of St. Helena.	The period after construction of the Adams Street elements have been completed.	NO-4a
<b>Impact T-1</b> Construction of the project would result in increased traffic on area roadways.	<b>T-1a</b> The city will provide a traffic control plan to Caltrans for review and approval prior to project construction including: access points to State Route 29, staging areas, dump sites, operating hours, project duration, scheduling and phasing; and total number of construction vehicles, and their respective haul routes, per project phase. <b>T-1b</b> The City will notify the Napa Valley Wine Train of the project schedule. <b>T-1c</b> An encroachment permit is required if project activities encroach onto a State right of way. An encroachment permit application will be submitted to Caltrans if required. <b>T-1d</b> Flaggers will be stationed to slow or stop approaching vehicles to avoid conflicts with construction vehicles, or equipment, where needed.	Documentation that the Traffic Control Plan has been developed and verifying that the requirements within the plan are being implemented.  The construction plans and specifications to establish contractor staging area, project phasing, and operating hours. City staff shall inspect the site once per month while construction is underway and provide a written report to the Planning Director regarding the construction contractor's implementation of Mitigation Measures T-1a and T-1d.	The City of St. Helena in consultation with Caltrans for approval of the Traffic Control Plan and issuance of the encroachment permit.	During the three to four year construction period.	T-1a T-1b T-1c T-1d
<b>Impact T-2</b> Once built, the Adams Street extension would change traffic patterns in St. Helena.	<b>T-2a</b> Adams Street/Main Street intersection: The operation of the intersection shall be improved by the installation of a westbound right turn lane. In addition, a right turn overlap shall be added to the traffic signal to operate concurrently with the southbound left turn phase. This will allow right turns to flow freely without pedestrian conflicts. With a westbound right turn lane and an overlap operator, the traffic signal will operate at LOS D with 53.2 seconds of control delay. <b>T-2b</b> Adams Street/Silverado Trail intersection: A traffic signal will be warranted and shall be installed at the intersection of Silverado Trail and Adams Street extension. The Peak Hour Volume Warrant will be satisfied. The intersection will operate at LOS B with 11.1 seconds of control delay.	Document that the modifications to the intersection of Main Street and Adams Street are implemented to result in Level of Service D with 53.2 seconds of control delay.	City of St. Helena	After the implementation of the intersection improvements.	T-2a T-2b