

**CITY OF SANTA ROSA
GEYSERS-DELTA POND CONNECTION IMPROVEMENTS PROJECT**

MITIGATED NEGATIVE DECLARATION

MITIGATION MONITORING AND REPORTING PROGRAM

Introduction

This Mitigation Monitoring and Reporting Program (MMRP) has been prepared pursuant to Section 21081.6 of the California Public Resources Code. A MMRP is required for the Approved Project because the Mitigated Negative Declaration (MND) has identified potential adverse effects that will be reduced to less-than-significant levels through the implementation of mitigation measures. The numbering of the individual mitigation measures follows the numbering sequence as found in the MND.

Mitigation Monitoring and Reporting Program

The MMRP, as outlined in the following table, describes mitigation timing, monitoring responsibilities, and compliance verification responsibility for all mitigation measures identified in the MND.

The City of Santa Rosa (City) will be the primary agency responsible for implementing the mitigation measures. The City may choose to require the project contractor to implement specific mitigation measures prior to and/or during construction. In some cases, the City or other public agencies will implement measures.

The MMRP is presented in tabular form on the following pages. The components of the MMRP are described briefly below:

- **Mitigation Measures:** The mitigation measures are taken verbatim from the MND, in the same order that they appear in the MND.
- **Timing/Frequency of Action:** Identifies at which stage of the project mitigation must be completed and how it will be implemented.
- **Responsible of Implementing:** Identifies the agency or department within the City responsible for implementing the mitigation measure.
- **Responsible for Monitoring:** Identifies the agency or department within the City responsible for mitigation monitoring and enforcement.
- **Verification of Compliance:** Identifies the initials of the responsible agency's representative and the date the representative verified implementation of the specific mitigation measure.

Mitigation Monitoring and Reporting Plan

	Mitigation Measure	Timing/Frequency of Action	Responsible for Implementing	Responsibility for Monitoring	Standards for Compliance	Verification of Compliance
3.3	AIR QUALITY					
AQ-1	The following BMPs will be implemented during dredging and construction.	During Geysers and Diffuser Projects	A Construction contractor	TPWD/BAAQMD	Site inspection to verify compliance with mitigation measures during dredging and construction; applicable forms submitted to BAAQMD	
	a. All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered two times per day.					
	b. All haul trucks transporting soil, sand, or other loose material off-site shall be covered.					
	c. All visible mud or dirt track-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited.					
	d. All vehicle speeds on unpaved roads shall be limited to 15 mph.					
	e. All roadways, driveways, and sidewalks to be paved shall be completed as soon as possible. Building pads shall be laid as soon as possible after grading unless seeding or soil binders are used.					
	f. Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes (as required by the California Airborne Toxics Control Measure CCR Title 13, Section 2485). Clear signage shall be provided for construction workers at all access points.					
	g. All dredging and construction equipment shall be maintained and properly tuned in accordance with manufacturer's specifications. All equipment shall be checked by a certified visible emissions evaluator.					
	h. A publicly visible sign with the telephone number and person to contact at the lead agency regarding dust complaints shall be posted. This person shall respond and take corrective action within 48 hours. The BAAQMD phone number shall also be visible to					

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	ensure compliance with applicable regulations.					
3.4	BIOLOGICAL RESOURCES					
BIO-1	No more than 14 days prior to ground-disturbing activities, a biologist shall conduct a pre-construction survey of the project site for all terrestrial special-status species listed above within Question A listed as having a potential to occur within the project site. If habitat suitable to support CTS or CRLF (i.e. occupied new small mammal burrows) are identified during the pre-construction survey, the applicable agencies shall be notified. Whether or not special-status animal species are identified on the project site, exclusionary fencing shall be installed to prevent their entrance during work activities. If CTS, CRLF, RBN, or WPT or other listed animal species are observed on the project site, they shall be allowed to move out of the project site on their own accord prior to installation of exclusionary fencing. If the species does not move out of the project site on its own, follow-up surveys will be conducted on additional days to verify that the species is no longer present within the project site. Additionally, a biological monitor will be present during all ground disturbing activities to ensure “take” of special-status species does not occur. The biologist will monitor ground-disturbing activities and conduct daily inspections of all construction related equipment for special-status species prior to the start of daily construction activities.	Prior to construction of Geysers and Diffuser Projects	Construction contractor	TPWD /CDFW	Verify completion of surveys and additional stipulated mitigation if necessary	
Bio-2	Should construction activities associated with the Proposed Project occur during the general nesting season (February 15 to September 15), a pre-construction nesting bird survey shall be conducted no more than 14 days prior to the start of construction. Areas within 500 feet of construction shall be surveyed for active nests. Should an active nest be identified, an avoidance buffer shall be established based on the needs of the species identified and pursuant to consultation with the USFWS as appropriate prior to initiation of construction activities. Avoidance buffers may vary in size depending on habitat characteristics, project-related activities, and disturbance levels. Avoidance buffers shall remain in place until the	Prior to construction of Geysers and Diffuser Projects if commencing between February 15 th and September 15 th .	Construction contractor	TPWD /CDFW	Verify completion of surveys and additional stipulated mitigation if necessary	

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<p>end of the general nesting season or upon determination by a qualified biologist that young have fledged or the nest has failed.</p> <p>Additionally, a bat emergence survey will be conducted prior to the removal of any trees. If emergence of bats is detected, tree trimming and removal shall happen in a two-step process. Felled trees and trimmed branches shall be allowed to lay on the ground for a period of 24 hours after the initial cut. Once a 24-hour period has passed, the felled trees and trimmed branches can be removed from the site. Due to no trees over a 4-inch needing to be cut, no bat roosting habitat will likely be impacted.</p>					
<p>Bio-3 To avoid impacts to Santa Rosa Creek and the Delta Pond, from stormwater or other project activities, BMPs shall be implemented to address any runoff issues. BMPs would include but not be limited to silt fencing along Santa Rosa Creek and the access road and the eastern perimeter of the Delta Pond near the staging area, as well as appropriate stockpile management. Additionally, BMP's will encompass designated areas for the dewatering of dredge sediment as to prevent sediment latent water from entering Santa Rosa Creek. A the "U" shaped fishery sediment curtain in Mitigation Measure Bio 5 will be deployed within Santa Rosa Creek and will also limit suspended sediment, caused by dredging activities, from continuing downstream.</p>	<p>Prior to and during construction of Geysers and Diffuser Projects</p>	<p>Construction contractor</p>	<p>TPWD/City</p>	<p>Verify installation of BMPs by City Inspector</p>	
<p>Bio-4 A pre-construction rare plant survey shall be conducted prior to ground disturbance. An April bloom survey would address all identified plant species of concern. If special-status species are observed within the project site during any of the pre-construction surveys, an updated biological memorandum will be prepared by a qualified biologist, and if necessary site plans will be revised with items such as but not limited to developing alternate routes around identified special-status plant species or relocating the staging to eliminate impacts to identified special-status plant species. If avoidance of special-status plants are unavoidable, consultation with CDFW and or USFWS shall be initiated and mitigation may be necessary.</p>	<p>Prior to construction of Geysers and Diffuser Projects</p>	<p>Construction contractor</p>	<p>TPWD</p>	<p>Verify completion of surveys and additional stipulated mitigation if necessary</p>	

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Bio-5	<p>Dredging operations will be conducted outside of the known salmonid fall and winter runs, known to occur during the months of November to February for the region. By avoiding this window, impacts to migrating salmonids will be greatly reduced as the majority of the salmonids will have completed their migration. A “U” shaped sediment curtain will be installed to fully contain the dredging area preventing any fish from entering the dredge area and preventing silt from leaving the immediate area until it settles during either hydraulic or mechanical dredging. A qualified biological monitor will be present during the installation of the sediment curtain to ensure that any fish or other aquatic species are out of out of harm’s way until the sediment curtain is fully installed. Instauration will begin on the upstream side to enable fish to escape naturally outside of the work area. In consultation with appropriate fisheries agencies, removal of sediment from around the diffuser nozzles will be conducted using the hydraulic and mechanical dredging methods where the dredge spoils will be conveyed to a dewatering area as adjacent as feasible to the dredge location within the floodplain in order to minimize sediment mobilization back to the stream. The dredge material will be placed on the floodplain with runoff contained to minimize sediment discharge into Santa Rosa Creek. Material from hydraulic dredging will be allowed to dewater from the Geotube, with mechanical dredging material being stockpiled and allowed to dewater naturally prior to being hauled off site. Once the soils are adequately dewatered, the spoils not hauled off site will be spread to the surrounding soils at a depth of not more than 0.2 feet in a manner that does not allow them to return to the Creek. To offset impacts to riparian vegetation within the work area of the dredging, mitigation planting of native vegetation along Santa Rosa Creek will be planted at a 3:1 ratio. The target area for this mitigation should be in areas infested with invasive species such as Himalayan blackberry, and replaced with native willows to help shade the stream. Additionally, 404, 401, and 1600 permits will be obtained. If additional mitigation measures</p>	Implementation of the Diffuser Project	Construction contractor	TPWD /CDFW	Verify completion of monitoring and consultations	

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<p>are required they shall also be implemented. The project will consult with CDFW and National Marine Fisheries Service regarding the need for a CESA ITP or federal authorization and will obtain such authorizations if warranted prior to project construction. Such consultation may be combined with the permitting process for this project.</p>					
<p>Bio-6 Tree removal and trimming of tree limbs will be necessary in order to conduct the proposed activities along Santa Rosa Creek, to allow for equipment access to the Diffuser Improvements Project area. The Santa Rosa City Code, Title 17 Environmental Protection, Chapter 17-24.030 will be followed. This ordinance states that no person shall trim or remove any tree, situated in the City, without a permit. A tree removal application will be submitted to the City in seeking approval for vegetation trimming and removal along the Santa Rosa Creek to the Director of Recreation and Parks.</p>	Implementation of the Diffuser Project	Construction contractor	TPWD /City	Verify installation of BMPs by City Inspector	
<p>3.5 CULTURAL</p>					
<p>CR-1 A qualified professional archeologist and Native American monitor shall be retained to monitor ground-disturbing work associated with the Geysers component of the Proposed Project as well as any work associated with the access road and clearing for machinery needed to remove sediments near the Diffuser. If the archeologist or monitor observes cultural materials or features, all work within 50 feet of the find shall halt until the monitoring team can identify the materials, determine their possible significance, and formulate appropriate measures for their treatment; these measures shall be implemented by the City prior to the resumption of construction. Potential treatment methods for significant and potentially significant resources may include, but would not be limited to, avoidance of the resources through changes in construction methods or project design or implementation of a program of testing and data recovery, in accordance with all applicable federal and State requirements. Any efforts shall be documented in a cultural resources report to be filed with the NWIC.</p>	During Construction of Geysers and Diffuser Projects	TPWD	TPWD	Verify that a qualified archaeologist and Native American monitor would be available to monitor ground-disturbing work. If any find is determined to be significant, verify completion and implementation of treatment plan according to current professional standards	

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CR-2	Work shall halt within 50 feet if human remains are uncovered during construction, the significance of the find shall be assessed, and the appropriate management shall be pursued. California law recognizes the need to protect interred human remains, particularly Native American burials and items of cultural patrimony, from vandalism and inadvertent destruction. The procedures for the treatment of discovered human remains are contained in California Health and Safety Code §§ 7050.5 and 7052 and PRC § 5097. If remains are uncovered, the City and County coroner shall be notified immediately. The coroner is required to examine all discoveries of human remains within 48 hours of receiving notice of a discovery on private or State lands (Health and Safety Code § 7050.5[b]). If the coroner determines that the remains are those of a Native American, he or she must contact the NAHC by phone within 24 hours of making that determination (Health and Safety Code § 7050[c]). The project applicant, or its appointed representative and the professional archaeologist shall contact the Most Likely Descendent (MLD), as determined by the NAHC, regarding the remains. The MLD, in cooperation with the City shall determine the ultimate disposition of the remains and any associated artifacts.	During Construction of Geysers and Diffuser Projects	TPWD	TPWD	In the event of discovery of human remains, verify City and County Coroner is contacted and NAHC is notified if remains are of Native American origin.	
3.9 HAZARDS AND HAZARDOUS MATERIALS						
HAZ-1	Construction equipment shall contain spark arrestors, as provided by the manufacturer.	During construction of Geysers and Diffuser Projects	Construction contractor	TPWD	Site inspection to verify compliance with mitigation measure during construction	
HAZ-2	Staging areas, welding areas, or areas slated for development using spark-producing equipment shall be cleared or dried vegetation or other materials that could serve as fire fuel.	During construction of Geysers and Diffuser Projects	Construction contractor	TPWD	Site inspection to verify compliance with mitigation measure during construction	
HAZ-3	During construction, the project site shall be cleaned daily of trash and debris to the maximum extent practicable	During construction of Geysers and Diffuser Projects	Construction contractor	TPWD	Site inspection to verify compliance with mitigation measure during construction	
3.10 HYDROLOGY & WATER QUALITY						
HYD-1	Dischargers whose projects disturb one or more acres of	During construction of	Applicant and/or	TPWD	Site inspection to verify	

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<p>soil are required to obtain coverage under the General Permit for Dischargers of Storm Water Associated with Construction Activity (Construction General Permit, 99-08-DWQ). Construction activity subject to this permit includes clearing, grading and disturbance to the ground such as stockpiling or excavation. The Construction General Permit requires the development and implementation of a Storm Water Pollution Prevention Plan (SWPPP). The SWPPP must list BMPs the discharger will use to protect storm water runoff and the placement of those BMPs. Additionally, the SWPPP must contain a visual monitoring program; a chemical monitoring program for “non-visible” pollutants to be implemented if there is a failure of BMPs; and a sediment monitoring plan. The following BMPs shall be included in the SWPPP or SWPPPs prepared for Project construction in accordance with the General Construction Permit.</p>	<p>Geysers and Diffuser Projects</p>	<p>Construction Contractor</p>		<p>compliance with mitigation measure during construction</p>	
<ol style="list-style-type: none"> 1. The construction contractor shall install a containment boom around the work area to contain floating debris, and shall provide a vessel to retrieve debris from the containment area at the end of each work day. 2. Straw bales, wattles, fiber rolls, gravel bags, or equivalent devices shall be installed around the perimeter of the staging area of where the diffuser is located and stockpiled materials that are exposed to the environment to prevent debris from being transported to the Santa Rosa Creek via runoff. 3. The use of hazardous materials during construction shall be minimized to the extent practical, and the amount of hazardous materials stored on or adjacent to the shoreline shall be limited to what is needed to immediately support construction activities. 4. Inactive material stock piles must be covered 					

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and bermed at all times.					
5. All construction activities will be prohibited from taking place during the rainy season (November-March).					
6. In the case of a rain event, active debris boxes shall be covered during rain events to prevent contact with rainwater.					
HYD-2 A hydrologic and hydraulic analysis must be performed prior to the start of development, and must demonstrate that the development would not cause any rise in base flood levels.	Prior to construction of Geysers and Diffuser Projects	TPWD/ Construction Contractor		Report completed prior to construction and submitted to TPWD	

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