Environmental Protection Actions (EPA) and Mitigation Measures (MM)	Implementation Procedure	Monitoring Responsibility	Monitoring / Reporting Action & Schedule	Monitoring Compliance Record (Name/Date)
EPA-1: Implement Geotechnical Design Recommendations  The Project will be designed and constructed in compliance with the site-specific recommendations made in the Project's geotechnical reports (DCM 2016, DCM 2018). This will include design in accordance with recommendations for open-cut trenching, trenchless construction, excavation dewatering, excavation shoring, pipeline foundation material, geotextile filter fabric requirements, pipeline embedment material, trench backfill material, shaft construction, and other factors. The geotechnical recommendations will be incorporated into the final plans and specifications for the Project and will be implemented during construction.	Incorporate recommendations into final plans and specifications.	City of Santa Rosa	Verify all geotechnical study design recommendations are incorporated into 90% specifications.	
<ul> <li>EPA-2: Implement Air Quality Control Measures during Construction</li> <li>To limit dust, criteria pollutants, and precursor emissions associated with the construction activity, the following Bay Area Air Quality Management District (BAAQMD) recommended Basic Construction Measures will be included in construction contract specifications and required during implementation of the project: <ul> <li>All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas and unpaved access roads) shall be watered two times per day;</li> <li>All haul trucks transporting soil, sand, or other loose material off-site shall be covered or shall have at least two feet of freeboard;</li> <li>All visible mud or dirt tracked-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 shall be prohibited;</li> <li>All vehicle speeds on unpaved areas shall be limited to 15 miles per hour;</li> <li>All paving shall be completed as soon as possible after trenching work is finished;</li> <li>Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to five minutes (as required by the California airborne toxics control measure Title 13, Section 2485 of California Code of Regulations). Clear signage shall be provided for construction workers at all access points;</li> <li>All construction equipment shall be maintained and properly tuned in accordance with manufacturer's specifications. All equipment shall be checked by a certified mechanic and determined to be running in proper condition prior to operation;</li> <li>A publicly visible sign shall be posted with the telephone number and person to contact at the City regarding dust complaints. This person shall respond and take corrective action within 48 hours. The Air District's phone number shall also be visible to ensure compliance with applicable regulations.</li> </ul> </li> </ul>	Incorporate into final plans and specifications.	City of Santa Rosa	Verify in 90% specifications. Check daily jobsite compliance as necessary.	

Environme	ental Protection Actions (EPA) and Mitigation Measures (MM)	Implementation Procedure	Monitoring Responsibility	Monitoring / Reporting Action & Schedule	Monitoring Compliance Record (Name/Date)
To ensure to following moduring considering considerin	onstruction vehicle idling times shall be minimized by shutting equipment off when it in use or reducing the maximum idling time to 5 minutes or less (as required by a California airborne toxics control measure Title 13, Section 2485 of CCR). Clear grage shall be provided to remind contractors of idling restrictions.  Onstruction equipment shall be maintained in accordance with manufacturer's ecifications.  The contractor shall be required to implement one of the following measures, as asible and appropriate to the construction project:  Substitute electrified equipment for diesel- and gasoline-powered equipment where practical.  Use alternative fuels for construction equipment onsite, where feasible, such as compressed natural gas (CNG), liquefied natural gas (LNG), propane, or biodiesel.	Incorporate into final plans and specifications.	City of Santa Rosa	Verify in 90% specifications. Check daily jobsite compliance as necessary.	(rams, Date)
along Paul To limit imp incorporate pipelines ar 12, 13, 14,  Sa an ma  Vis pit Sa Cit Th	solar-powered equipment.  Lest Management Practices for Pipeline and Manhole Abandonment clin Creek  Locates to waterways and riparian vegetation, the following measures shall be add into the Project design and/or be implemented during construction for and manholes to be abandoned along Paulin Creek (SSMH, #6, 7, 8, 9, 10, 11, 139, 154, and 155).  Land bags will be in place around manholes. Sand bags will be placed around any ditches or fill/vent pipes where the slurry material is placed into the sewer ains.  Lest squeen plastic will be onsite for overflow containment or for lining of clean-out tes/excavations as needed.  Land slurry will be delivered to each manhole by hose.  Let sty staff person(s) will monitor creek bank between manholes.  Let sweep representative will be on site for monitoring operations.  Let city will provide immediate response for containment if slurry is escapes anholes or pipelines.	Incorporate into final plans and specifications.	City of Santa Rosa	Verify in 90% specifications. Check daily jobsite compliance as necessary. Verify success of replacement vegetation annually for three years after project completion.	

Environmental Protection Actions (EPA) and Mitigation Measures (MM)	Implementation Procedure	Monitoring Responsibility	Monitoring / Reporting Action & Schedule	Monitoring Compliance Record (Name/Date)
<ul> <li>City inspection and BMP staff will be present to monitor compliance with work plan and monitor waterways.</li> </ul>				
<ul> <li>Vac-truck and pump truck with hoses will be available on Standby with a response time of two hours.</li> </ul>				
<ul> <li>City will maintain erosion and sediment control measures and other protective measures in effective operating condition by performing routine inspections to determine condition and effectiveness, by restoration of destroyed vegetative cover, and by repair of erosion and sediment control measures and other protective measures throughout construction.</li> </ul>				
MM AES-1: Minimize Temporary Visual Impacts along Chanate Road	Incorporate into	City of Santa	Verify in 90%	
The City shall avoid or substantially lessen impacts by reducing construction disturbance visible from Chanate Road. Measures shall include:	final plans and specifications.	Rosa	specifications. Check daily jobsite	
<ul> <li>The size of construction zones and staging areas shall be the minimum operable size. The location of such zones shall be adjusted to minimize the visual impacts.</li> </ul>	compliance as necessary.			
<ul> <li>During construction, temporary fencing with green fabric screen or similar screening shall be placed around primary staging areas to limit the prominence of views of construction equipment and associated construction materials.</li> </ul>				
MM AES-2: Avoid Glare and Light Trespass from Nighttime Construction Lighting	Incorporate into final plans and	City of Santa Rosa	Verify in 90% specifications.	
The City shall require the contractor to prepare and implement a Nighttime Construction Lighting Plan for any nighttime work so as to avoid glare that would be a hazard to vehicles and to avoid light trespass onto adjacent residential uses. The lighting plan shall be developed to guide the use of lighting during project construction in such a way as to effectively light the work area while limiting light spill onto adjoining property. The Plan shall adequately describe the work including, but not be limited to, the layout of lighting equipment necessary for all work to be completed at night and descriptions of hardware, including hoods, louvers, shields or other means to be used to control glare and light trespass onto adjoining property. Lighting systems with flood, spot, or stadium type luminaires shall be aimed downward at the work.	specifications. Prepare Nighttime Construction Lighting Plan		Verify compliance with Nighttime Construction Lighting Plan prior to any work that requires lighting.	
MM BIO-1: Prevent Disturbance to Nesting Birds  The City shall avoid or minimize potential impacts to nesting passerines and raptors near the Project:  Removal of vegetation or trees should be conducted outside the nesting season, which generally occurs between approximately March 1 and August 15, if feasible. Because some bird species nest in grassy and/or shrubby areas, it	Conduct preconstruction nesting surveys if grading or vegetation removal occurs	City of Santa Rosa	Verify that surveys are conducted within 7 days of the start of construction. Verify that disturbance buffers	
. sas.s.s. 200aacc como sua opocios most in graccy analor omabby aroac, it	during nesting season.		and fencing	

Environmental Protection Actions (EPA) and Mitigation Measures (MM)	Implementation Procedure	Monitoring Responsibility	Monitoring / Reporting Action & Schedule	Monitoring Compliance Record (Name/Date)
<ul> <li>would be advantageous to remove any trees or vegetation during the non-nesting season.</li> <li>If vegetation removal outside of March 1 to August 15 is not feasible and groundbreaking must occur within the nesting season, a pre-construction nesting bird (both passerine and raptor) survey of the grasslands and adjacent trees shall be performed by a qualified biologist within seven days prior to ground breaking. If no nesting birds are observed, no further action is required and construction shall begin within one week of the survey.</li> </ul>	Implement recommended protection measures as necessary.		requirements are installed, if needed.	
<ul> <li>If active bird nests (either passerine and/or raptor) are observed during the pre- construction survey, a disturbance-free buffer zone shall be established around the nest until the young have fledged, as determined by a qualified biologist.</li> </ul>				
<ul> <li>The radius of the required buffer zone can vary depending on the species, (e.g., 75 to 100 feet for passerines and 200 to 300 feet for raptors), with the dimensions of any required buffer zones to be determined by a qualified biologist in consultation with CDFW.</li> </ul>				
<ul> <li>To delineate the buffer zone around a nesting tree, orange construction fencing shall be placed at the specified radius from the base of the tree within which no machinery or workers shall intrude.</li> </ul>				
<ul> <li>After the fencing is in place there will be no restrictions on grading or construction activities outside the prescribed buffer zones.</li> </ul>				
MM BIO-2: Prevent Disturbance of Bats	Conduct Bat	City of Santa	Verify Bat Habitat	
Prior to construction, the City shall have a Bat Habitat Assessment conducted by a qualified biologist. The Habitat Assessment shall evaluate the trees that would be pruned that have a breast height diameter greater than 10 inches. The Habitat Assessment shall evaluate the trees for suitable entry points and roost features, and shall provide focused daytime surveys for day-roosting bats. If a special-status bat species is found, or if suspected day roosts for special-status bats are identified, then the Habitat Assessment shall identify suitable performance measures for avoiding impacts as follows:	Habitat Assessment. Implement suitable performance measures as necessary.	Rosa	Assessment is conducted prior to construction.  Verify buffers have been implemented, if needed.	
a) Preconstruction Surveys:				
<ul> <li>All trees and structures suitable for use by bats shall be surveyed for signs of bats prior to Project activities.</li> </ul>				
b) Avoidance Measures:				
<ul> <li>If bats are discovered during the pre-construction surveys, then a buffer of 100 to 150 feet shall be maintained.</li> </ul>				

Environmental Protection Actions (EPA) and Mitigation Measures (MM)	Implementation Procedure	Monitoring Responsibility	Monitoring / Reporting Action & Schedule	Monitoring Compliance Record (Name/Date)
<ul> <li>The optimal time to remove trees is September 15 through October 15, when young would be capable of flying, and between February 15 to April 1 to avoid hibernating bats and prior to formation of maternity sites.</li> </ul>				
<ul> <li>If flushing of bats is necessary, it shall be done by a biologist during the non-breeding season from October 1 to March 31. When flushing bats, structures and/or trees shall be removed carefully to avoid harming individuals, and torpid bats given time to completely arouse and fly away.</li> </ul>				
<ul> <li>During the maternity season from April 1 to September 30, prior to construction, a qualified biologist shall determine if a bat nursery is present at any sites identified in the Bat Habitat Assessment as potentially housing bats.</li> </ul>				
<ul> <li>If an active nursery is present, disturbance of bats shall be avoided until the biologist determines that breeding is complete and young are reared.</li> </ul>				
MM BIO-3: Restore Riparian Vegetation	Incorporate	City of Santa	Verify riparian	
The City shall compensate for temporary loss of riparian vegetation at the manholes to be abandoned along Paulin Creek by revegetating the area disturbed around each manhole. The disturbed areas shall be revegetated with species comparable to those removed from the disturbed areas. The revegetated areas shall be monitored annually for three years and shall be supplemented if necessary to achieve successfully revegetation.	requirement for revegetation into specifications.	ment for Rosa tation into	revegetation requirements are in 90% specifications. Verify success of replacement vegetation annually for three years after	у
			areas have been revegetated.	
MM BIO-4: Pruning and Trenching Techniques to Minimize Tree Loss  The City shall retain a certified arborist to develop special trenching and pruning techniques to minimize the potential for tree impacts and tree loss along the alignment. The contractor shall implement such techniques. Construction activities within the dripline of trees adjacent to trenches shall be avoided to the extent feasible during construction. Pruning of trees shall be completed by either a certified arborist or by the contractor under supervision of either an International Society of Arboriculture qualified arborist, American Society of Consulting Arborists consulting arborist, or a qualified horticulturalist. Pruning shall be completed to the minimum degree necessary to accommodate construction vehicles and in a manner that helps preserve tree health. If trees are damaged or lost, trees shall be replaced in accordance with the City of Santa Rosa Zoning Code. To the extent allowable, replacement trees shall be planted in the vicinity of the tree to be removed. The City shall ensure that plantings are monitored annually for three years after Project completion to ensure that the replacement plantings have developed and that the trees survive.	Retain certified arborist to review project and provide recommended techniques.	City of Santa Rosa	Verify that techniques are in 90% specifications.	

Environmental Protection Actions (EPA) and Mitigation Measures (MM)	Implementation Procedure	Monitoring Responsibility	Monitoring / Reporting Action & Schedule	Monitoring Compliance Record (Name/Date)
MM CR-1: Protect Unknown Archaeological Resources during Construction Activities  If potential archaeological resources are uncovered, the City shall halt work and workers shall avoid altering the materials and their context. Project personnel shall not collect cultural materials. Prehistoric materials might include obsidian and/or chert flaked-stone tools such as projectile points, knives, or scraping implements; the debris from making, sharpening, and using them ("debitage"); culturally darkened soil containing shell, dietary bone, heat-altered rock, and carbonized plant material ("midden"); or stone milling equipment such as mortars, pestles, handstones, or milling slabs. A qualified professional archaeologist shall evaluate the find and provide appropriate recommendations. If the archaeologist determines that the find potentially qualifies as a historic resource or unique archaeological resource for purposes of CEQA (per CEQA Guidelines Section 15064.5), all work must remain stopped in the immediate vicinity to allow the archaeologist to evaluate any materials and recommend appropriate treatment. A Native American monitor shall be present for the investigation, if the local Native American tribe requests. Avoidance of impacts to the resource are preferable. In considering any suggested measures proposed by the consulting archaeologist in order to mitigate impacts to historical resources or unique archaeological resources, the City shall determine whether avoidance is feasible in light of factors such as the nature of the find, project design, costs, and other considerations. If avoidance is infeasible, other appropriate measures as recommended by the archaeologist (e.g., data recovery) shall be instituted. Work may proceed on other parts of the Project while mitigation for historic resources or unique archaeological resources is being carried out.	Incorporate into specifications.	City of Santa Rosa	Verify requirements are in 90% specifications.	
MM CR-2: Protect Paleontological Resources during Construction Activities In the event that fossils are encountered during construction (i.e., bones, teeth, or unusually abundant and well-preserved invertebrates or plants), construction activities shall be diverted away from the discovery within 50 feet of the find, and a professional paleontologist shall be notified to document the discovery as needed, to evaluate the potential resource, and to assess the nature and importance of the find. Based on the scientific value or uniqueness of the find, the paleontologist may record the find and allow work to continue, or recommend salvage and recovery of the material, if it is determined that the find cannot be avoided. The paleontologist shall make recommendations for any necessary treatment that is consistent with currently accepted scientific practices. Any fossils collected from the area shall then be deposited in an accredited and permanent scientific institution where they will be properly curated and preserved.	Incorporate into specifications.	City of Santa Rosa	Verify requirements are in 90% specifications.	

Environmental Protection Actions (EPA) and Mitigation Measures (MM)	Implementation Procedure	Monitoring Responsibility	Monitoring / Reporting Action & Schedule	Monitoring Compliance Record (Name/Date)
MM CR-3: Protect Human Remains if Encountered during Construction  If human remains, associated grave goods, or items of cultural patrimony are encountered during construction, the City shall halt work in the vicinity of the find and notify the County Coroner immediately. The City shall follow the procedures in Public Resources Code § 5097.9 and Health and Safety Code § 7050.5. If the human remains are determined to be of Native American origin, the Coroner shall notify the Native American Heritage Commission within 24 hours of the determination. The Native American Heritage Commission shall then notify the Most Likely Descendant (MLD), who has 48 hours to make recommendations to the landowner for the disposition of the remains. A qualified archaeologist, the City and the MLD shall make all reasonable efforts to develop an agreement for the treatment, with appropriate dignity, of any human remains and associated or unassociated funerary objects. The agreement would take into consideration the appropriate excavation, removal, recordation, analysis, custodianship, and final disposition of the human remains and associated or unassociated funerary objects.	Incorporate into specifications.	City of Santa Rosa	Verify requirements are in 90% specifications. Conduct notification, if necessary.	
MM HAZ-1: Manage Hazardous Wastes near the Chanate Road/Mendocino Avenue Intersection  The City shall prepare and implement a Soil and Groundwater Management Plan for excavation and dewatering activities in the vicinity of the Chanate Road/Mendocino Avenue intersection. The City shall implement the Plan. Elements of the Soil and Groundwater Management Plan shall include, but would not necessarily be limited to, the following:  Measures to address hazardous materials and other worker health and safety issues during construction, including the specific level of protection required for construction workers. This shall include preparation of a site-specific health and safety plan in accordance with federal OSHA regulations (29 CFR 1910.120) and Cal-OSHA regulations (8 CCR Title 8, Section 5192) to address worker health and safety issues during construction.  Monitoring of excavation activities for soil and groundwater contamination. Monitoring shall include, at minimum, visual and organic vapor monitoring by personnel with appropriate hazardous materials training, including 40 hours of Hazardous Waste Operations and Emergency Response (HAZWOPER) training. If visual or organic vapor monitoring indicates signs of suspected contaminated soil, then soil and groundwater samples shall be collected and analyzed to characterize soil and water quality.  Groundwater brought to the surface as a result of construction dewatering shall be handled in a manner appropriate to construction-related permits for dewatering. If contamination is suspected or noted during the construction phase, then the groundwater shall be containerized and analyzed for contamination by a	Prepare Soil and Groundwater Management Plan.	City of Santa Rosa	Verify soil and groundwater plan requirements are in 90% specifications.	

Environmental Protection Actions (EPA) and Mitigation Measures (MM)	Implementation Procedure	Monitoring Responsibility	Monitoring / Reporting Action & Schedule	Monitoring Compliance Record (Name/Date)
laboratory, certified by the California Environmental Protection Agency (CalEPA) Environmental Laboratory Accreditation Program (ELAP), using United States Environmental Protection Agency (USEPA)-approved analytical methods. If contaminated groundwater is encountered, precautions shall be taken to assure that the installation of piping or other construction activities do not further disperse contamination.				
<ul> <li>All potentially contaminated materials encountered during Project construction activities shall be evaluated in the context of applicable local, state and federal regulations and/or guidelines governing hazardous waste. All materials deemed to be hazardous shall be remediated and/or disposed of following applicable regulatory agency regulations and/or guidelines. Disposal sites for both remediated and non-remediated soils shall be identified prior to beginning construction. Management of this site shall be documented in a Material Management Plan acceptable to applicable agencies. All evaluation, remediation, treatment, and/or disposal of hazardous waste shall be supervised and documented by qualified hazardous waste personnel.</li> </ul>				
MM HWQ-1: Manage Construction Storm Water  The City shall obtain coverage under State Water Resources Control Board Order No. 2009-0009-DWQ, Waste Discharge Requirements for Discharges of Storm Water Runoff Associated with Construction and Land Disturbance Activities, as amended by Order No. 2012-0006. The City shall submit permit registration documents (notice of intent, risk assessment, site maps, Storm Water Pollution Prevention Plan, annual fee, and certifications) to the State Water Resources Control Board. The Storm Water Pollution Prevention Plan shall address pollutant sources, drilling fluids, non-storm water discharges resulting from construction dewatering, best management practices, and other requirements specified in the above-mentioned Order. The Storm Water Pollution Prevention Plan shall also include dust control practices to prevent wind erosion, sediment tracking, and dust generation by construction equipment. A Qualified Storm Water Pollution Prevention Plan Practitioner shall oversee implementation of the Plan, including visual inspections, sampling and analysis, and ensuring overall compliance.	Prepare SWPPP and permit registration documents prior to construction. Retain a Qualified Storm Water Pollution Prevention Plan Practitioner to oversee SWPPP implementation.	City of Santa Rosa	Verify requirements are in 90% specifications. Confirm that SWPPP meets State Board requirements and is implemented during construction.	
<ul> <li>MM HWQ-2: Manage Construction Dewatering</li> <li>The City shall evaluate reasonable options for dewatering management that would avoid discharging to a local surface water or storm drain. The following management options shall be considered:         <ul> <li>Reuse the water on-site for dust control, compaction, or irrigation.</li> <li>Retain the water on-site in a grassy or porous area to allow infiltration/evaporation.</li> <li>Discharge (by permit) to a sanitary sewer.</li> </ul> </li> </ul>	Incorporate management options into specifications. If discharging to local surface water or storm drain, prepare Best Management	City of Santa Rosa	Verify requirements are in 90% plan set. Verify obtainment of permit and that requirements are implemented during construction, if needed.	

Environmental Protection Actions (EPA) and Mitigation Measures (MM)	Implementation Procedure	Monitoring Responsibility	Monitoring / Reporting Action & Schedule	Monitoring Compliance Record (Name/Date)
If discharging to the sanitary sewer, the City shall comply with a one-time discharge permit or other type of approval requiring, as necessary, measures for characterizing the discharge and ensuring filtering methods and monitoring to verify that the discharge is compliant with the City's local wastewater discharge requirements.  If discharging to a local surface water or storm drain, the City shall obtain coverage under Order No. R1-2009-0045, Waste Discharge Requirements for Low Threat Discharges to Surface Waters in the North Coast Region. The City shall submit permit registration documents to the North Coast Regional Water Quality Control Board, including development of a Best Management Practices/Pollution Prevention Plan to characterize the discharge and to identify specific measures to control the discharge, such as sediment controls to ensure that excessive sediment is not discharged, and flow controls to prevent erosion and flooding downstream of the discharge. The City shall ensure that the contractor oversees implementation of the Best Management Practices/Pollution Prevention Plan during construction dewatering activities, including visual inspections.	Practices / Pollution Prevention Plan and obtain required permit prior to construction.  Implement applicable measures in permit.			
MM NOI-1: Manage Vibration Levels  The City shall not use heavy vibration-generating construction equipment to the extent feasible. Where heavy vibration-generating equipment must be used, the City shall prepare a vibration study conducted by a qualified acoustic scientist prior to the start of construction. The study will determine the age and sensitivity of potentially affected structures, determine whether a threshold of 0.3 or 0.5 inch/sec PPV is appropriate for each of them, and estimate the projected vibration impact at each structure. The City shall move the construction or use alternate construction equipment such that the projected Project vibration impact at each structure is less than the appropriate threshold established by the study.	Incorporate requirement into specifications.	City of Santa Rosa	Verify requirements are in 90% specifications.	
<ul> <li>MM NOI-2: Reduce Construction Noise Levels</li> <li>The City shall ensure that noise levels during construction, including construction staging areas, do not exceed the following performance standards:         <ul> <li>A daytime exterior noise level of 70 dBA Leq at school classrooms while school is in session between 7 am and 5 pm.</li> <li>An exterior noise level of 60 dBA Leq at residential buildings between 10 pm and 7 am.</li> </ul> </li> <li>The contractor will determine the specific methods to meet the performance standards provided above. Specific measures that can be feasibly implemented to comply with these performance standards include, but are not limited to, the following:         <ul> <li>Best available noise control practices (including mufflers, intake silencers, ducts, engine enclosures, and acoustically attenuating shields or shrouds) shall be used for all equipment and trucks in order to minimize construction noise impacts.</li> </ul> </li> </ul>	Incorporate requirements and Construction Best Management Practices into specifications.  Develop and implement construction noise monitoring plan.	City of Santa Rosa	Verify requirements are in 90% specifications.  Monitor weekly during primary phases of construction.	

Environmental Protection Actions (EPA) and Mitigation Measures (MM)	Implementation Procedure	Monitoring Responsibility	Monitoring / Reporting Action & Schedule	Monitoring Compliance Record (Name/Date)
<ul> <li>If impact equipment (e.g., jack hammers, pile drivers) is needed during Project construction, hydraulically or electric-powered equipment shall be used wherever feasible to avoid the noise associated with compressed-air exhaust from pneumatically powered tools. However, where use of pneumatically powered tools is unavoidable, an exhaust muffler on the compressed-air exhaust shall be used. External jackets on the tools themselves shall also be used if available and feasible.</li> </ul>	Notify adjacent sensitive receptors			
<ul> <li>To the extent consistent with applicable regulations and safety considerations, operation of vehicles requiring use of back-up beepers shall be avoided near sensitive receptors during nighttime hours and/or, the work sites shall be arranged in a way that avoids the need for any reverse motions of large trucks or the sounding of any reverse motion alarms during nighttime work. If these measures are not feasible, trucks operating during the nighttime hours with reverse motion alarms must be outfitted with SAE J994 Class D alarms (ambient-adjusting, or "smart alarms" that automatically adjust the alarm to 5 dBA above the ambient near the operating equipment).</li> </ul>				
<ul> <li>Stationary noise sources shall be located as far from sensitive noise receptors as feasible. If they must be located near receptors, adequate muffling (with enclosures where feasible and appropriate) shall be used. Enclosure openings or venting shall face away from sensitive noise receptors.</li> </ul>				
<ul> <li>A designated Project liaison shall be responsible for responding to noise complaints during the construction phases. The name and phone number of the liaison shall be conspicuously posted at construction areas and on all advanced notifications. This person shall take steps to resolve complaints, including periodic noise monitoring, if necessary. Results of noise monitoring shall be presented at regular Project meetings with the contractor. The liaison shall coordinate with the contractor to modify any construction activities that generate noise levels above the levels identified in the performance standards listed in this measure.</li> </ul>				
<ul> <li>A reporting program shall be required that documents complaints received, actions taken to resolve problems, and effectiveness of these actions.</li> </ul>				
<ul> <li>Locate equipment at the work area to maximize the distance to noise-sensitive receptors, and to take advantage of any shielding that may be provided by other on-site equipment.</li> </ul>				
<ul> <li>Maintain respectful and orderly conduct among workers, including worker conversation noise during the nighttime hours.</li> </ul>				
<ul> <li>Maintain the equipment properly to minimize extraneous noise due to squeaking or rubbing machinery parts, damaged mufflers, or misfiring engines.</li> </ul>				

Implementation Procedure	Monitoring Responsibility	Monitoring / Reporting Action & Schedule	Monitoring Compliance Record (Name/Date)
Incorporate into	City of Santa	Verify requirements	
specifications.	Rosa		
•		during construction.	
and occupants			
Incorporate into	City of Santa	Verify in 90%	
specifications.	Rosa	specifications.	
		Monitor weekly during primary phases of construction.	
	Incorporate into specifications.  Notify emergency responders and property owners and occupants whose driveways may be blocked. Incorporate into	Incorporate into specifications.  Notify emergency responders and property owners and occupants whose driveways may be blocked.  Incorporate into  City of Santa Rosa  City of Santa Rosa  City of Santa Rosa	Incorporate into specifications.  Notify emergency responders and property owners and occupants whose driveways may be blocked.  Incorporate into specifications.  City of Santa Rosa  City of Santa Rosa  Verify requirements are in 90% specifications.  Verify requirements are implemented during construction.  Verify requirements are implemented during construction.  City of Santa Rosa  Verify in 90% specifications.  Monitor weekly during primary phases of

Environmental Protection Actions (EPA) and Mitigation Measures (MM)	Implementation Procedure	Monitoring Responsibility	Monitoring / Reporting Action & Schedule	Monitoring Compliance Record (Name/Date)
the temporary construction zone, if necessary, to maintain the existing transit service throughout the segment.				
MM TCR-1: Minimize Impacts to Unknown Tribal Cultural Resources  If potential tribal cultural resources are uncovered, the City shall halt work, and workers shall avoid altering the materials and their context. Project personnel shall not collect cultural materials. The District shall notify California Native American tribes culturally affiliated with the project area. The City, in coordination with Native American tribes, shall determine if the resource qualifies as a tribal cultural resource under CEQA. If it does, then all work must remain stopped in the immediate vicinity to allow evaluation of any materials. The City shall ensure that qualified resources are avoided, protected in place, or moved to an appropriate location in accordance with the requests of Native American tribes, to the extent feasible. Work may proceed on other parts of the project while mitigation for tribal cultural resources is being carried out.	Coordinate with California Native American tribes, if tribal cultural resources are found.	City of Santa Rosa	Verify monitoring requirements in 90% specifications. Notify tribes, if needed.	