

Mitigation and Monitoring Plan

Sewer Line Relocation – Clay Street to Locust Avenue Project

Mitigation Measure	Environmental Protection Measures	Timing for Implementation	Implementing Party	Monitoring Party	Steps to Compliance	Confirmation of Completeness (Initial and Date)
BIO-1	In-water work (e.g., installation of the cofferdams) will occur when flows in Hangtown Creek are lowest, generally April through October.	During construction	Construction Contractor	City	A. Schedule in-water work for Hangtown Creek when flows are at their lowest, between April and October.	
BIO-2	A qualified biologist will monitor installation of the cofferdams. After the upstream cofferdam is installed, a seine will be pulled through the downstream reach of the creek to the location of the downstream cofferdam, to move as many fish and other aquatic wildlife out of the work area as possible. Any fish or other aquatic wildlife trapped between the cofferdams will be relocated downstream of the work area by the qualified biologist.	During construction	Construction Contractor and Qualified Biologist	City	A. The City will retain a Qualified Biologist. B. The Qualified Biologist monitors the installation of cofferdams. C. After upstream cofferdam is installed, the Qualified Biologist will move fish and other aquatic wildlife trapped between the cofferdams to downstream, out of the work area, using a seine.	
BIO-3	The pump filter screen mesh for the bypass pipe pump will be 3/32 inch or smaller, consistent with sizing recommendations for salmonid fry.	During construction	Construction Contractor	City	A. The Construction Contractor will obtain a pump filter screen mesh that is 3/32 inch or smaller, consistent with sizing recommendations for salmonid fry. B. The Construction Contractor will use the obtained pump filter screen mesh for the bypass pipe pump.	
CUL-1	An Archaeological monitor will be on site during construction activities of native soil for the proposed project. Up to two months prior, and no less than one week prior, to the start of construction activities of native soil, the City will contract with a qualified Archaeological Consultant/Monitor. The archeological monitor will wear the appropriate safety equipment while on the construction site and will document field-monitoring activities on a monitoring log. The qualified archaeological monitor will be given 24-hour business day notice of the start of native soil disturbing activities. If subsurface deposits believed to be cultural or human in origin are discovered during construction, all work will halt within a 100-foot radius of the discovery. Depending on the nature of the find, a qualified professional archaeologist, meeting the Secretary of the Interior’s Professional Qualification Standards for archaeology, will be retained to evaluate the significance of the find in cooperation with the UAIC Tribal Monitor or Tribal Representative. The qualified professional archaeologist will have the authority to modify the no-work radius as appropriate, using professional judgment. The following notifications will apply, as necessary: <ul style="list-style-type: none"> • If the qualified professional archaeologist determines that the find does not represent a cultural resource, work can resume immediately, and no agency notifications are required. • If the qualified professional archaeologist determines that the find does represent a cultural resource from any time period or cultural affiliation, he or she will immediately notify the City. If the find is determined to be eligible for inclusion in the National Register or California Register, the City will consult on a finding of eligibility and implement appropriate treatment measures. Work may not resume within the no-work 	During the final design phase, during construction	Construction Contractor and Qualified Archeologist	City	A. The City will retain a Qualified Archaeologist. B. Qualified Archeologist monitors construction activities of native soil (such as creek bed or bank and subbase of the roadway or trail). C. If subsurface deposits believed to be cultural or human in origin are discovered, all work will halt within a 100-foot radius of the discovery. D. If necessary, the Qualified Archeologist who meets the Secretary of the Interior’s Professional Qualification Standards for archeology, will be retained, to evaluate the significance of the find and will have the authority to modify the no-work radius as appropriate. E. The Qualified Archeologist will determine if the find represents a cultural resource. F. If the find does represent a cultural resource, they will immediately notify the City. G. If the find is eligible for inclusion in the National Register or California Register, the City will consult on a finding of eligibility and implement appropriate treatment measures. H. Work can resume in the no-work radius area when the City determines that the site is not eligible for the National Register or California Register, or, if it was	

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	radius until the City, through consultation as appropriate, determines that the site either: 1) is not eligible for the National Register or California Register; or 2) that the treatment measures have been completed to its satisfaction.				determined eligible, when the treatment measures have been completed.	
CUL-2	<p>An Environmentally Sensitive Area (ESA) will be established in consultation with the City, a UAIC Tribal Representative, and the qualified archaeologist consultant along the north bank of Hangtown Creek and delineated on the engineering plans. The fencing will consist of three-foot-high, orange, polyethylene, construction fencing and will extend the full distance of this portion of the BRM plus a 10-foot buffer to ensure the site is not disturbed. This fencing will serve as a clear visual barrier for construction personnel beyond which no project-related activities can occur.</p> <p>Up to two months prior, and no less than one week prior, to the start of construction, the Resident Engineer will contact the City's qualified Archaeological Consultant to assist in the installation of the ESA fencing. The qualified Archaeological Consultant will be given 24-hour business day notice of the start of ESA fencing installation. Protective measures include fencing, access restrictions, and specific contractual language. The following actions will be undertaken prior to construction:</p> <ul style="list-style-type: none"> • The qualified Archeological Consultant and UAIC Certified Tribal Monitor will work closely with the Resident Engineer (RE) and Construction Contractor to educate all involved about potential sensitive precontact resources. A preconstruction field review will be conducted by the archaeological consultant, as well as training for construction personnel; • The ESA Map will be included in the City's RE's Pending File and clearly marked on all project plans and contract specifications (PS&E) documents; and • The ESA fencing will remain in place until the construction activities are complete. <p>In addition to the measures outlined above, construction specifications and engineering plans will include the location of the ESA fencing and the following language:</p> <ul style="list-style-type: none"> • Contractor is responsible for protection of the BRM; • Contractor will advise all construction workers of the location of the BRM and they are required to protect the BRM from an inadvertent damage; • Prior to construction activities, the City's Archeological Consultant and UAIC Tribal Monitor or Tribal Representative will delineate the ESA through the installation of a three-foot-high orange temporary construction fence with 10-foot buffer around the site; and • No construction personnel or ride-on machinery will be allowed within the ESA boundary. 	Prior to and during construction	Construction Contractor, Resident Engineer, and Qualified Archeologist	City	<ul style="list-style-type: none"> A. The Construction Contractor will establish an ESA in consultation with the City, a UAIC Tribal Representative, and the Qualified Archeologist along the bank of Hangtown Creek. B. The Resident Engineer will delineate the ESA on the engineering plans. C. One week prior to the start of construction, the Resident Engineer will contact the City's Qualified Archeological Consultant to assist in the installation of the ESA fencing. D. Three-foot-high, orange, polyethylene, construction fencing will be placed at a 10-foot buffer around the BRM. E. The Archeological Consultant and UAIC Certified Tribal Monitor, working with the Resident Engineer, will educate all involved about potential sensitive precontact resources by will conducting a preconstruction field review and a training for construction personnel. F. The ESA Map will be included in the City's RE's Pending File and marked on all project plans and contract specifications (PS&E documents). G. THE ESA fencing will remain in place until after construction activities are complete. 	
HAZ-1	Prior to any ground disturbance adjacent to the Ivy House parking lot, surface water and sediment sampling in Hangtown Creek will be performed to determine whether contaminants have migrated from the Ivy House parking lot to locations that would be affected by construction. A work plan describing the investigation will be prepared by a qualified professional and submitted to the City and the El Dorado County Environmental Management Division for review and approval.	During the final design phase	A Phase II Assessor	City	<ul style="list-style-type: none"> A. Retain a Phase II Assessor to conduct a study on surface water and sediment contamination from the Ivy House parking lot in Hangtown Creek. B. Surface water and sediment sampling will be performed in Hangtown Creek adjacent to the Ivy House parking lot during the final design phase. 	

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	<p>The work plan will be implemented prior to any construction activity in the potentially affected area. If the results of the investigation indicate contamination, the level of contamination will be evaluated by a qualified professional to determine whether the levels would pose an unacceptable health risk to construction workers, who would be the most susceptible to inhalation and soil/groundwater contact hazards. The City will provide the study report to the El Dorado County Environmental Management Division and will notify the Central Valley RWQCB and/or DTSC, if reporting is required.</p>				<p>C. The Phase II Assessor will prepare a work plan describing the investigation and submit it to the City and the El Dorado Management Division. D. The approved work plan will be implemented during final design in the potentially affected area. E. If the investigation indicated contamination, the Phase II Assessor will determine whether the contamination levels pose an unacceptable health risk to construction workers. F. If necessary, the City will provide the study report to the El Dorado County Environmental Management Division and notify the Central Valley RWQCB and/or DTSC.</p>	
HAZ-2	<p>A California-licensed abatement contractor will sample and test a representative sample of road pavement paint on Locust Avenue, within the project site, for hazardous levels of lead in the paint. Representative samples of pavement paint will be collected at multiple locations along Locust Avenue, between Main Street and US 50, and analyzed for lead concentrations. If hazardous levels of lead are found in the paint, the following will be required:</p> <ul style="list-style-type: none"> • A Lead Compliance Plan will be prepared by the contractor for the disposal of lead-based paint. The grindings (which consist of the roadway material and the yellow and white color traffic stripes) will be removed and disposed of in accordance with federal and State regulations. • A California licensed lead contractor will be required to perform all work that will disturb any lead-based paint in the project area, including the presence of yellow traffic striping and pavement markings that may contain lead-based paint. All such material must be removed and disposed of as a hazardous material in compliance with federal and State regulations. 	During the final design phase	A California-Licensed Abatement Contractor	City	<p>A. Retain a California Licensed Abatement Contractor. B. The California Licensed Abatement contractor will sample and test a representative sample of road pavement paint on Locust Avenue within the project site, and representative samples of pavement paint at multiple locations along Locust Avenue, between Main Street and US 50, for hazardous levels of lead in the paint. C. Testing will occur during the final design phase. D. If lead is found in the paint, the California Licensed Abatement contractor will prepare a Lead Compliance Plan for the disposal of lead-based paint, in accordance with federal and State regulations. E. Retain a California Licensed Lead Contractor to perform all work that will disturb any lead-based paint in the project area.</p>	
HAZ-3	<p>The following actions for handling and disposal of soils that contain an elevated level of ADL during the pre-construction/pre-demolition phase will be implemented:</p> <ul style="list-style-type: none"> • A California-licensed abatement contractor will sample and test a representative sample of soils at the project site for hazardous levels of aerially deposited lead. Representative samples of exposed shallow soils will be collected at multiple locations along the project site and analyzed for total lead and extractable lead concentrations. • If hazardous levels of aerially deposited lead are found in the soils at the project site, the following will be required: • Removal, disposal, storage and transportation of materials contaminated with hazardous levels of aerially-deposited lead will be performed in compliance with all applicable federal, state, and local laws, including but not limited to requirements of State Water Resources Control Board and California Regional Water Quality Control Board water quality control plans and waste discharge permits, California Department of Fish and Wildlife (CDFW) permit requirements for ADL-contaminated soil, and all requirements of the EDCAQMD. 	During the final design phase, prior to construction, during construction	A California-Licensed Abatement Contractor	City	<p>A. Retain a California Licensed Abatement Contractor B. The California Licensed Abatement contractor will sample and test a representative sample of soils collected at multiple locations within the project site for hazardous levels of aerially deposited lead during the final design phase. C. If hazardous levels of aerially deposited lead are found in the soils at the project site they will be removed, transported, and disposed of in compliance with all applicable federal, state, and local laws, as outlined in the mitigation measure.</p>	

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	<ul style="list-style-type: none"> Removal, disposal, storage, and transportation of materials contaminated with hazardous levels of aerially-deposited lead will be performed in compliance with the Soil Management Agreement for aerially-deposited Lead-Contaminated Soils of the Department of Toxic Substance Control. 					
NOI-1	<p>Construction activities will be limited to daytime hours Monday through Friday between 7:00 a.m. and 7:00 p.m. and on Saturday between 8:00 a.m. and 5:00 p.m. and will be prohibited on Sunday and federal/state-recognized holidays unless approved in advance by the City. Nighttime (between 9:00 p.m. and 6:00 a.m.) construction activities will be prohibited unless approved in advance by the City. If the City approves nighttime construction, as no nighttime construction thresholds exist, the proposed project will conform to the following (typically used by Caltrans for nighttime construction activities [Caltrans Standard Specifications Section 14-8.02 Noise Control]), "Nighttime construction noise will not exceed 86 A-weighted decibels (dBA) 1-hour A-weighted equivalent continuous sound level (Leq(h) at a distance of 50 feet."</p>	During construction	Construction Contractor	City	<p>A. The Construction Contractor and construction workers will complete any project construction activities within daytime hours Monday through Friday between 7:00 a.m. and 7:00 p.m. and on Saturday between 8:00 a.m. and 5:00 p.m. and will be prohibited on Sunday and federal/state-recognized holidays unless approved in advance by the City.</p> <p>B. If the City approves nighttime construction, the proposed project will conform to the following, "Nighttime construction noise will not exceed 86 A-weighted decibels (dBA) 1-hour A-weighted equivalent continuous sound level (Leq(h) at a distance of 50 feet."</p>	
TCR-1	<p>A UAIC Certified Tribal Monitor will be on site during construction activities of native soil for the proposed project. Up to two months prior, and no less than one week prior, to the start of construction activities of native soil, the City will contract with the UAIC THPO for a UAIC Certified Tribal Monitor. The UAIC THPO can be reached at thpo@auburnrancheria.com.</p> <p>The UAIC Tribal monitor will wear the appropriate safety equipment while on the construction site and will document field-monitoring activities on a monitoring log. The UAIC Certified Tribal Monitor will be given 24-hour business day notice of the start of native soil disturbing activities.</p> <p>In the event the UAIC Tribal Monitor does not report to the job site at the scheduled time after receiving 24-hour business day notice, construction activities will proceed without tribal monitoring.</p> <p>If subsurface deposits believed to be cultural or human in origin are discovered during construction, all work will halt within a 100-foot radius of the discovery. Depending on the nature of the find, the UAIC Tribal Monitor or Tribal Representative will evaluate the nature of the find in consultation with the qualified professional archaeologist. The UAIC Tribal Monitor or Tribal Representative will have the authority to modify the no-work radius as appropriate, using professional judgment. The following notifications will apply, as necessary:</p> <ul style="list-style-type: none"> If the UAIC Tribal Monitor or Tribal Representative determines that the find does not represent a tribal cultural resource, work can resume immediately, and no agency notifications are required. If the UAIC Tribal Monitor or Tribal Representative determines that the find does represent a tribal cultural resource, he or she will immediately notify the City. The UAIC Tribal Monitor or Tribal Representative will work with the City and the Resident Engineer (RE) to identify the boundaries of the new tribal cultural resource, determine if the find is a tribal cultural resource, and identify appropriate treatment of the tribal 	During the final design phase, during Construction	Construction Contractor, UAIC Certified Tribal Monitor, UAIC Tribal Representative	City	<p>A. The City will retain a UAIC Certified Tribal Monitor.</p> <p>B. A UAIC Certified Tribal Monitor will monitor construction activities of native soil (such as creek bed or bank and subbase of the roadway or trail).</p> <p>C. If subsurface deposits believed to be cultural or human in origin are discovered, all work will halt within a 100-foot radius of the discovery.</p> <p>D. If necessary, the UAIC Certified Tribal Monitor will evaluate the significance of the find and will have the authority to modify the no-work radius as appropriate.</p> <p>E. The UAIC Certified Tribal Monitor will determine if the find represents a tribal cultural resource.</p> <p>F. If the find does represent a tribal cultural resource, they will immediately notify the City.</p> <p>G. The UAIC Tribal Monitor or Tribal Representative will work with the City and the Resident Engineer (RE) to identify the boundaries of the new tribal cultural resource, determine if the find is a tribal cultural resource, and identify appropriate treatment of the tribal cultural resource.</p> <p>H. Work can resume in the no-work radius area when the City and the UAIC THPO have determined appropriate treatment has been completed.</p>	

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	cultural resource. Work may not resume within the no-work radius until the City and the UAIC THPO have determined appropriate treatment has been completed.					
TCR-2	<p>An Environmentally Sensitive Area (ESA) will be established in consultation with the City, a UAIC Tribal Representative, and the qualified archaeologist consultant along the north bank of Hangtown Creek and delineated on the engineering plans. The fencing will consist of three-foot-high, orange, polyethylene, construction fencing and will extend the full distance of this portion of the BRM plus a 10-foot buffer to ensure the site is not disturbed. This fencing will serve as a clear visual barrier for construction personnel beyond which no project-related activities can occur.</p> <p>Up to two months prior, and no less than one week prior, to the start of construction, the Resident Engineer will contact the UAIC Certified Tribal Monitor to assist in the installation of the ESA fencing. The UAIC Certified Tribal Monitor will be given 24-hour business day notice of the start of ESA fencing installation. Protective measures include fencing, access restrictions, and specific contractual language. The following actions will be undertaken prior to construction:</p> <ul style="list-style-type: none"> • The UAIC Certified Tribal Monitor will work closely with the Resident Engineer (RE) and Construction Contractor to educate all involved about potential sensitive precontact resources. A preconstruction field review will be conducted by the archaeological consultant, as well as training for construction personnel; <p>In addition to the measures outlined above, construction specifications and engineering plans will include the location of the ESA fencing and the following language:</p> <ul style="list-style-type: none"> • Contractor is responsible for protection of the BRM; • Contractor will advise all construction workers of the location of the BRM and they are required to protect the BRM from an inadvertent damage; • Prior to construction activities, the City's Archaeological Consultant and UAIC Tribal Monitor or Tribal Representative will delineate the ESA through the installation of a three-foot-high orange temporary construction fence with 10-foot buffer around the site; and • No construction personnel or ride-on machinery will be allowed within the ESA boundary. 	Prior to and during construction	Construction Contractor, Resident Engineer, and UAIC Certified Tribal Monitor, UAIC Tribal Representative	City	<ul style="list-style-type: none"> A. The Construction Contractor will establish an ESA in consultation with the City, UAIC Tribal Representative, and the Qualified Archeologist along the bank of Hangtown Creek. B. The City Engineer will delineate the ESA on the engineering plans. C. One week prior to the start of construction, the Resident Engineer will contact UAIC Certified Tribal Monitor to assist in the installation of the ESA fencing. D. Three-foot-high, orange, polyethylene, construction fencing will be placed at a 10-foot buffer around the BRM. E. The UAIC Certified Tribal Monitor, working with the Resident Engineer, will educate all involved about potential sensitive precontact resources by conducting a preconstruction field review and training for construction personnel. F. The ESA Map will be included in the City's RE's Pending File and marked on all project plans and contract specifications (PS&E documents). THE ESA fencing will remain in place until after construction activities are complete. 	