APPENDIX E: WATER MANAGEMENT PLAN

Adams Pond Restoration Project
CEQA Initial Study / Mitigated Negative Declaration

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Water Management Plan for Adam's Pond Restoration Project

General Plan

Adam's Pond is located within Tehama County California, about 30 miles southwest of Red Bluff California. Due to sediment inundation from upstream, off property, slope instability, Adam's Pond has lost a majority of its storage capacity. To assist in the diversion of water for the projects construction this water management plan has been developed. Because the worksite will require a dry workplace, the project manager will ensure that the construction will occur in the dryer seasons, late summer/early fall, and the remaining waters within Adam's Pond will be drawn down to an acceptable level per the contractors' equipment's psi rating. The contractor will Install a temporary water management system to the pond using pumps or siphon hoses to redirect standing or flowing water away from the work area. The temporary system will be installed in a way that allows flexibility to adjust pump rates, drainage patterns, or materials based on field conditions or storm forecasts. The system will also include the use of temporary channels, culverts, sandbags, visqueen, or similar low-impact stabilization methods to seal or support temporary diversion structures. within the sediment to be excavated. With the redirection of waters that are below the spillway, this increases the potential for a dry work area. The contractor will also use equipment that can operate effectively on dry surfaces and minimize the need for entering saturated or sensitive zones.

Plan Details

A system of pumps and siphon hoses will be installed to extract ponded water from the reservoir and discharge it over the spillway (normal and only pond outlet) with an 8in line that will pump about 400gal a min. and lower water elevation, drawn down to 30' below the spillway (pond max depth is approximately 45'), will be maintained for several weeks to allow the plug of sediment to naturally dewater. During construction there will be no discharges downstream whatsoever. There is potential to excavate linear trenches parallel to the north shoreline of the pond, excavating a 10-20' deep trench to accelerate sediment pore water discharge. There is potential to configure these trenches to create a bypass channel from the west end to the pooled water at the east end of the pond. This channel will convey stormwater to the remaining pond away from the work area. Once ample amount of water is diverted, pumps will be turned off and left in place until needed, or if project is completed. With the disposal of sediment, the haul road will be moved/ removed, meaning any temporary culverts used for sediment haul off will removed once they are no longer needed for sediment transport. The use of BMPs will be implemented, and the project BMP Plan will be utilized. The contractor will ensure onsite monitoring of work areas to look for pooling or nuisance water and implement adaptive drainage strategies as needed to maintain safe and efficient operations.

Sediment Management

Because this project wants to limit any and all stock piling, no overnight stockpiling will occur. Any sediment moved or disturbed will need to be disposed to upland area before end of workday to ensure no sediment is stockpiled within or just outside the OHWM.

Conclusion

Water management for this project will ensure the worksite remains as dry as conditions allow. The project will ensure there is no displacement of water from its natural path to elsewhere. Upon completion of the sediment removal, the pumps and siphons will be removed, and the pond will be left to refill with the coming seasons runoff. Due to the volume required to fill the pond, this may take a few storm events. The gradual refilling of the pond will aid in compaction of sediment leftover from the construction period and any discharge over the spillway post project is unlikely to show turbidity as a result of any water management or sediment removal activities.