

**HI-DESERT WATER DISTRICT DISTRICT
PHASE II AND PHASE III SEWER COLLECTION SYSTEM PROJECT
MITIGATION MONITORING AND REPORTING PROGRAM**

This Environmental Mitigation Monitoring and Reporting Program has been prepared pursuant to Section 21081.6 of the California Environmental Quality Act, known as CEQA (Public Resources Code Section 21000 et seq.), to provide for the monitoring of mitigation measures required of the Phase II and Phase III Sewer Collection System Project (Project), as set forth in the Final Initial Study/Mitigated Negative Declaration prepared for the Project. This report will be kept on file in the offices of the Hi-Desert Water District (HDWD).

| MITIGATION MEASURE | | IMPLEMENTATION SCHEDULE | RESPONSIBLE PARTY | VERIFICATION | STATUS / DATE / INITIALS |
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| BIOLOGICAL RESOURCES | | | | | |
| BIO-1 | A qualified biologist shall develop a Worker Environmental Awareness Program (WEAP) that will include information on general and special status species within the project area, identification of these species and their habitats, techniques being implemented during construction to avoid impacts to all species, consequences of killing or injuring an individual of a listed species, and reporting procedures when encountering listed or sensitive species, procedures to check pipes and trenches at the end of the day, and placement of escape ramps in open trenches. Construction crews, foremen, and other personnel potentially working on site will attend this education program and place their name on a sign-in sheet. This briefing shall include provisions of any requirements required for the project. HDWD and its contractor shall implement Worker Environmental Awareness Program training on the first day of work and periodically throughout construction as needed. | Prior to the beginning of construction of each individual Project | HDWD | The attendee list be retained in the project file. | |
| BIO-2 | Bird nesting season generally extends from February 1 through September 15 in southern California and specifically, April 15 through August 31 for migratory passerine birds. In general, Projects should be constructed outside of this time to avoid impacts to nesting birds. If a Project cannot be constructed outside of nesting season, the project site shall be surveyed for | Avian and general wildlife surveys shall be conducted within 3 days prior to initiating construction at any location not within an existing paved or | HDWD | The biologist shall prepare a report to be retained in the Project file. | |

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| <p>nesting birds by a qualified avian biologist within three (3) days prior to initiating the construction activities. If active nests are found during the pre-construction nesting bird surveys, a Nesting Bird Plan (NBP) will be prepared and implemented. At a minimum, the NBP will include guidelines for addressing active nests, establishing buffers, monitoring, and reporting. The NBP will include a copy of maps showing the location of all nests and an appropriate buffer zone around each nest sufficient to protect the nest from direct and indirect impact. The size and location of all buffer zones, if required, shall be determined by the biologist, and shall be based on the nesting species, its sensitivity to disturbance, and expected types of disturbance. The nests and buffer zones shall be field checked weekly by a qualified biological monitor. The approved buffer zone shall be marked in the field with construction fencing, within which no vegetation clearing or ground disturbance shall commence until the qualified biologist has determined the young birds have successfully fledged and a monitoring report has been submitted reviewed and approved by the HDWD.</p> | <p>graded right-of-way. This applies to all construction projects through the life of the Project.</p> | | | |
| <p>BIO-3 When equipment staging and work will occur on non-paved roadways, preconstruction surveys for burrowing owl and desert tortoise shall be conducted.</p> <p><u>Desert Tortoise.</u> A qualified biologist shall conduct a protocol level presence or absence survey no more than 14 days prior to initiating Project activities in accordance with the survey methodology described in <i>U.S. Fish and Wildlife Service Desert Tortoise (Mojave Population) Field Manual</i>. In addition, the survey shall utilize perpendicular survey routes and 100-percent</p> | <p>Before commencing ground- or vegetation disturbing activities/Entire Project</p> | <p>HDWD</p> | <p>The biologist shall prepare a report of findings that will be retained in the Project file.</p> | |

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| <p>visual coverage of the Project area and 50-foot buffer zone for desert tortoise and their sign. If the survey confirms absence, a qualified biological monitor shall remain on-site during all Project activities to confirm desert tortoise do not enter the Project site. If the survey confirms presence, the Project Proponent shall obtain an ITP for desert tortoise prior to the start of Project activities. If the biological monitor during the life of the Project encounters a desert tortoise, work shall be suspended, and the Project Proponent shall obtain an ITP for the species prior to the restarting Project activities.</p> <p><u>Pre-construction Burrowing Owl Survey.</u> Burrowing owl surveys shall be conducted by a qualified biologist at least 14 days prior to any Project activities, at any time of year. Surveys shall be completed following the recommendations and guidelines provided within the <i>Staff Report on Burrowing Owl Mitigation</i> (CDFG, March 2012) or most recent version by a qualified biologist. If an active burrowing owl burrow is detected within any Project disturbance area, or within a 500-foot buffer of the disturbance area, a 300-foot radius buffer zone surrounding the burrow shall be flagged, and no impacts to soils or vegetation or noise levels above 65 dBA shall be permitted while the burrow remains active or occupied. Disturbance-free buffers may be modified based on site-specific conditions in consultation with CDFW. The qualified biologist shall monitor active burrows daily and will increase buffer sizes as needed if owls show signs of disturbance. If active burrowing owl burrows are located within any work area and impact cannot be avoided, a qualified biologist shall submit a burrowing owl exclusion plan</p> | | | | |

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| <p>to CDFW for review and approval. The burrowing owl exclusion plan shall include permanent compensatory mitigation consistent with the recommendations in the <i>Staff Report on Burrowing Owl Mitigation</i> such that the habitat acreage, number of burrows and burrowing owls impacted are replaced. Passive relocation shall take place outside the nesting season (1 February to 31 August).</p> | | | | |
| <p>BIO-4 Special Status Plant Species. Special Status Plant Species. Pre-construction botanical surveys shall be conducted in vacant Project areas at the appropriate time of year by a qualified biologist following CDFW's <i>Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities</i> (CDFW, March 2018) or most recent version. Should Latimer's woodland-gilia, San Bernardino milk-vetch, Little San Bernardino Mtns. Linanthus, Robison's monardella or other special status plants or natural communities be present in the Project area, a qualified biologist shall develop species specific avoidance, minimization, and mitigation measures to ensure there is no net reduction in the size or viability of the local population. Should any CESA-listed plant species be present at the Project site, the Project Proponent shall obtain an incidental take permit for those species prior to the start of Project activities.</p> <p>Pre-construction springtime botanical surveys are recommended in the following areas for work or staging areas that will occur within vacant lands:</p> | <p>Before commencing ground- or vegetation disturbing activities/Entire Project.</p> | <p>HDWD</p> | <p>The biologist shall prepare a report of findings that will be retained in the Project file.</p> | |

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| <ul style="list-style-type: none"> • <u>Section 1 – Blue Skies Area</u> <ul style="list-style-type: none"> ○ Alignment behind houses and adjacent to golf course between Martinez Trail and Country Club Road. ○ Alignment along Quemada Trail between Yucca Trail and Country Club Road. • <u>Section 2 – Old Town North</u> <ul style="list-style-type: none"> ○ Alignment along Apache Trail and in undisturbed area to the north. • <u>Section 3 – Mid-Town North</u> <ul style="list-style-type: none"> ○ Four Alignments along north of Crest view Drive 1) Sage Road, 2) Barberry Avenue, 3) Dumosa Avenue and 4) Joshua Lane. ○ Two alignments that cross open areas 1) north of the jog in Sunnyslope road between Sage Road and Barberry Avenue and 2) alignment north of Sunnyslop between Condalia Avenue and Joshua Lane. • <u>Section 4 – State Route 241</u> <ul style="list-style-type: none"> ○ Entire alignment along Highway 247. • <u>Section 5 – Western Hills Estates and Shatin Hills</u> <ul style="list-style-type: none"> ○ Alignment along San Rafael Drive southeast of Oakwood Drive. ○ Alignment along Farrelo Road between Nogales Court and Pinto Court. | | | | |

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| <ul style="list-style-type: none"> ○ Alignment along Mirlo Lane off Mirlo Road southwest of Mirlo Court. ○ Alignment along Concho Way off Bandera Road. • <u>Section 6 – Warren Way</u> <ul style="list-style-type: none"> ○ Alignment along Berkely Drive north of Paxton Road. • <u>Section 7 – Paradise Valley North</u> <ul style="list-style-type: none"> ○ Four alignments along 1) North-South portion of Linda Lee Drive, 2) East-West portion of Linda Lee Drive, 3) Marvin Road and 3) Nelson Avenue. ○ Four open areas 1) undisturbed area of Williams lane between Linda Lee Drive and Marvin Drive, 2) alignment extending from the terminus of Nelson Avenue to Yucca Mesa Road, 3) East-West alignment north of hide Lane west of Marvin Drive and 4) East-West alignment due east of Hide Lane across Marvin Drive. • <u>Section 8 – Upper Sky Harbor</u> <ul style="list-style-type: none"> ○ Alignment along Black Rock Canyon Road north of San Marino Drive. ○ Two in open areas 1) east west alignment west of the intersection of Black Rock Canyon Road and San Marino Drive and open area west of terminus Santa Barbara Drive. | | | | |

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| <ul style="list-style-type: none"> • <u>Section 9 – Sky Harbor</u> <ul style="list-style-type: none"> ○ Alignments along Kaiulani Road south of South of San Andreas Road 2) alignment along San Andreas Road between Kaiulani Road and Frontera Avenue, and 3) Alignment along Balsa Avenue between San Andreas Road and Cortez Drive. • <u>Section 10 – South of Onaga Trail</u> <ul style="list-style-type: none"> ○ Alignment along Elata Avenue ○ Alignments 1) along Nagles Road between Elata Ave and Kingston Avenue, 2) along Ross Court between Elata Avenue and Imel Street and 3) along Imel Street South of Ross Court. • <u>Section 11 – Juniper Terrace Area</u> <ul style="list-style-type: none"> ○ Alignment along Jemenez Trail ○ Alignment along Inca Trail from Joshua Drive to terminus of Inca Trail ○ Alignment along Iona Lane East of Mariposa Trail. ○ Alignment along Fox Trail south of Highland Trail. ○ Alignment along Highland Trail east of Elk Trail to midway between Deer Trail and Bannock Trail. ○ Alignment along Deer trail between Mountainview Trail and Highland Trail. ○ Alignment along Bannock Trail south of Mountainview Trail | | | | |
| <p>BIO-5 For projects where a drainage crossing is required, once a Project has been designed, the HDWD will perform a jurisdictional waters delineation and obtain all applicable State and federal permitting based on the</p> | <p>During Project Planning, a jurisdictional delineation will be</p> | <p>HDWD</p> | <p>The jurisdictional delineation will form the basis for any jurisdictional permits that will be necessary for the Project.</p> | |

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| design to address project impacts. | prepared for all Projects that impact any drainages. | | | |
| <p>BIO-6 All Projects should be designed to avoid sensitive and/or protected desert plants as per the City of Yucca Valley and the County of San Bernardino. This includes equipment staging and storage areas. In the event said sensitive desert plants cannot be avoided, the HDWD shall conduct and/or prepare a Native Plant Survey and Relocation Plan in accordance with Ordinance No. 140 of the Town of Yucca Valley to be approved by the Town of Yucca Valley as part of the pre-construction planning. The survey should first identify all Joshua Trees and other native vegetation as recognized by the Town ordinance and assess their type and health. The HDWD should then work to find solutions to avoid these resources; if the resources cannot be avoided, HDWD will develop a relocation plan and obtain permits through applicable entities.</p> <p>Additionally, during the planning stage of all projects, the HDWD will review the State and Federal listing status of the Western Joshua Tree (<i>Yucca brevifolia</i>) as it was proposed to be listed as a threatened species under the California Endangered Species Act (CESA) at the time of the adoption of the Mitigated Negative Declaration for the Project. If the Project, including the Project construction or any Project-related activity during the life of the Project, results in take of CESA-listed species, the HDWD will seek appropriate authorization prior to Project implementation through an ITP if the species cannot be avoided.</p> | During each Project Planning, project alignments should aim to avoid take or relocation of Joshua Trees and other desert plants. If the alignment cannot avoid take, the HDWD should conduct a Joshua Tree health assessment and prepare Incidental Take permits with the CDFW, if applicable. | HDWD | Project plans, Joshua Tree Health Assessment reports, Permits | |
| BIO-7: Check for Wildlife in Pipes /Construction Materials. Biological Monitor(s) or a trained Construction | Daily or as applicable during construction | Contractor/HDWD | Field notes to be retained in project file. | |

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| <p>Supervisor shall visually check all sections of pipe/construction materials for the presence of wildlife sheltering within them prior to the pipe sections being placed in the trench and attached together, or shall have the ends capped while stored on site so as to prevent wildlife from entering. After attachment of the pipe sections to one another, whether in the trench or not, the exposed end(s) of the pipeline shall be capped at the end of each day during construction to prevent wildlife from entering and being trapped within the pipeline.</p> | | | | |
| CULTURAL RESOURCES | | | | |
| <p>CUL 1 In the event that evidence of archaeological resources are unearthed during construction activities, all work within 50 feet of the discovery should be halted or diverted until a qualified archaeologist can evaluate the nature and significance of the finds. No disturbance shall occur in the vicinity of the find until the site is evaluated by the archaeologist and the find is recorded or treated per the recommendations of the qualified archaeologist.</p> | <p>During Construction</p> | <p>HDWD/ Construction Inspector</p> | <p>HDWD shall ensure the Contractor understands these conditions through its construction contract or employee training. Verification of implementation shall be based on field inspections by HDWD inspection personnel that verify the measure is being implemented during construction. Field notes documenting verification shall be retained in the project file.</p> | |
| <p>CUL-2 In the event that human remains are discovered, there shall be no disposition of such human remains, other than in accordance with the procedures and requirements set forth in California Health and Safety Code Section 7050.5 and Public Resources Code Section 5097.98. These code provisions require notification of the County Coroner and the Native American Heritage Commission, who in turn must</p> | <p>During Construction</p> | <p>HDWD/ Construction Inspector</p> | <p>HDWD shall ensure the Contractor understands these conditions through its construction contract or employee training. Verification of implementation shall be based on field inspections by HDWD</p> | |

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| <p>notify those persons believed to be most likely descended from the deceased Native American for appropriate disposition of the remains. Excavation or disturbance may continue in other areas of the project site that are not reasonably suspected to overlie adjacent remains or archaeological resources.</p> | | | <p>inspection personnel that verify the measure is being implemented during construction. Field notes documenting verification shall be retained in the project file.</p> | |
| GEOLOGY AND SOILS | | | | |
| <p>GEO-1 Any pipelines crossing the Alquist-Priolo Special Studies Zones for the Pinto Mountain, Eureka Peak, and Burt Mountain Faults could be subject to damage due to ground rupture associated with these faults. Any construction of facilities in or pipelines crossing this zone is required to have detailed structural engineering studies to ensure designs that can safely accommodate the anticipated ground movement(s), or to be immediately repairable following a seismic event along any of the three faults.</p> | <p>Project Planning</p> | <p>HDWD</p> | <p>Engineering Plans, geotechnical studies for individual projects.</p> | |
| <p>GEO-2 The contractor will provide to the HDWD an Erosion Control Report (ECR) that will identify the Best Management Practices (BMPs) for managing any excavated or stockpiled materials. The BMPs may include but not be limited to the following:</p> <ul style="list-style-type: none"> • Prevent mud and debris from entering roadways, including the main entry road by providing trackout measures. • Locate stockpiles away from drainage courses, drain inlets or concentrated flows of storm water. • For wind erosion control, apply water or other dust palliative to stockpiles. Smaller stockpiles may be covered as an alternative. • Place bagged materials on pallets under cover. | <p>Prior to construction of individual projects.</p> | <p>Contractor/HDWD</p> | <p>HDWD and construction inspector</p> | |

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| <ul style="list-style-type: none"> • During the rainy season, non-active soil stockpiles will be covered with heavy plastic and the stockpile contained within a temporary perimeter sediment barrier, such as berms, dikes, silt fences, or sandbag barriers. A soil stabilization measure may be used in lieu of cover. • During the non-rainy season prior to the onset of rain, the stockpile should either be covered or protect them with temporary perimeter sediment barriers. • Year-round, active soil stockpiles will be protected with temporary linear sediment barriers prior to the onset of rain. • Pipelines placed within unpaved roadways will be graded and watered at least once per day, or as often as necessary to control dust. • Trenches will remain open for as short a time as possible. • The Plan will identify proper compaction for all pipelines and lift station facilities. | | | | |
| <p>GEO-3 Paleontological Resources. The HDWD staff and/or its contractor performing the work will be required to receive a Worker Environmental Awareness Training that will train workers on various environmental subjects including the potential for paleontological resources.</p> <p>Additionally, any substantial excavations (i.e. over 5 feet in depth) in the proposed Project areas identified as “moderate” in the General Plan should be monitored closely to quickly and professionally recover any fossil remains discovered while not impeding development. Also, sediment samples should be collected and</p> | <p>Project planning phase and Prior to construction.</p> | <p>Contractor/HDWD</p> | <p>Contractor employee training. Sign-in sheets for the training will be kept in the Project file.</p> | |

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| <p>processed during construction to determine the small fossil potential in the proposed Project area. Any fossils recovered during implementation of this mitigation measure should be deposited in an accredited and permanent scientific institution for the benefit of current and future generations. The areas for monitoring and sediment samples include but are not limited to:</p> <ul style="list-style-type: none"> • Blue Skies Country Club • Paradise Valley North • Juniper Terrace • Storey Park • Alta Loma • Copper Hills I • Copper Hills II • Sky Harbor • Upper Sky Harbor | | | | |
| HAZARDS AND HAZARDOUS MATERIALS | | | | |
| <p>HAZ – 1 All asphalt requiring removal from the Project Site shall be disposed of in accordance with current regulatory standards.</p> | <p>During Construction</p> | <p>Contractor/HDWD</p> | <p>Contractor/HDWD shall record disposal location of asphalt in the project file.</p> | |
| <p>HAZ – 2 A hazardous spill prevention plan shall be prepared by the Contractor and submitted to the HDWD for approval to minimize the likelihood of a spill shall be prepared prior to construction. The plan shall state the actions that would be required if a spill occurs to prevent contamination of surface waters and provide for cleanup of the spill. The plan shall follow Federal, state, and local safety guidelines and standards to avoid increased exposure to these pollutants.</p> | <p>During Construction</p> | <p>Contractor/HDWD</p> | <p>A copy of a hazardous spill prevention plan should be retained in the project file.</p> | |

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| <p>HAZ-3 During construction, all staging areas, welding areas, or areas slated for construction using spark-producing equipment will be cleared of dried vegetation or other material that could ignite. Spark arresting equipment shall be in good working order. The HDWD shall require all vehicles and crews working at the project site to have access to functional fire extinguishers at all times. In addition, construction crews are required to have a spotter during welding activities to look out for potentially dangerous situations, including accidental sparks. The contractor also shall provide a safety plan for the implementation of additional protocols when the National Weather Service issues a Red Flag Warning. Such protocols should address smoking and fire rules, storage and parking areas, use of gasoline-powered tools, use of spark arresters on construction equipment, road closures, use of a fire guard, fire suppression tools, fire suppression equipment, and training requirements.</p> | <p>During Construction</p> | <p>Contractor/HDWD</p> | <p>HDWD shall ensure the Contractor understands these conditions through its construction contract or employee training. Verification of implementation shall be based on field inspections by HDWD inspection personnel that verify the measure is being implemented during construction. Field notes documenting verification shall be retained in the project file</p> | |
| <p>NOISE</p> | | | | |
| <p>NOI-1 All Project construction activities will occur during times identified as non-nuisance timeframes as defined by the Town of Yucca Valley’s ordinance in effect at the time of the Project construction. At the time of this Initial Study, the time defined by the ordinance to not create a noise nuisance is identified as 7 am to 10 pm.</p> | <p>During Construction</p> | <p>Contractor/HDWD</p> | <p>HDWD shall ensure the Contractor understands these conditions through its construction contract or employee training. Verification of implementation shall be based on field inspections by HDWD inspection personnel that verify the measure is being implemented during construction. Field notes documenting verification shall be retained in the project file</p> | |

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| TRANSPORTATION AND TRAFFIC | | | | | |
| TRA-1 | The HDWD or its construction contractor will provide adequate traffic management resources, such as protective devices, flag persons, and police assistance for traffic control, to maintain safe traffic flow on local streets affected by pipeline construction at all times. | During Construction | Contractor/HDWD | Construction plans/specifications require contractor to comply with applicable State and federal traffic control plans. | |
| TRA-2 | The construction contractor will identify traffic hazards created by construction, such as rough road or potholes, freshly paved locations, and minimize total traffic and vehicle speed through such hazards. | During Construction | Contractor/HDWD | Construction plans/specifications require contractor to comply with this requirement. | |
| TRA-3 | The construction contractor will ensure that traffic safety hazards, such as uncovered or unfilled open trenches, will not be left in roadways during period of time when construction personnel are not present, such as nighttime and weekends. | During Construction | Contractor/HDWD | Construction plans/specifications require contractor to comply with this requirement. | |
| TRA-4 | The construction contractor will repair all roads adequately after construction to ensure that traffic can move in the same manner as before construction. | During Construction | Contractor/HDWD | Construction plans/specifications require contractor to comply with this requirement. | |
| TRA-5 | At all times during construction, the contractor will ensure that emergency fire, police or medical vehicles are able to access all adjacent areas. Additionally, construction equipment or activities must not obstruct or hinder traffic that might be generated during an evacuation. | During Construction | Contractor/HDWD | Construction plans/specifications require contractor to comply with this requirement. | |
| TRIBAL CULTURAL RESOURCES | | | | | |
| TCR-1 | The San Manuel Band of Mission Indians Cultural Resources Department (SMBMI) shall be contacted, as detailed in CR-1, of any pre-contact cultural resources discovered during project implementation, and be provided information regarding the nature of the find, | This topic will be contained in the WEAP training that will be given to employees at least one day prior to | HDWD/Contractor | Verification of implementation shall be based on field inspections by HDWD inspection personnel that verify the measure is being | |

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| <p>so as to provide Tribal input with regards to significance and treatment. Should the find be deemed significant, as defined by CEQA (as amended, 2015), a cultural resources Monitoring and Treatment Plan shall be created by the archaeologist, in coordination with SMBMI, and all subsequent finds shall be subject to this Plan. This Plan shall allow for a monitor to be present that represents SMBMI for the remainder of the project, should SMBMI elect to place a monitor on-site. This mitigation measure does not preclude notification to other tribes or treatment plans in accordance with other tribal entities.</p> | <p>construction.</p> | | <p>implemented during construction. Field notes documenting verification shall be retained in the project file.</p> | |
| <p>TCR-2 Any and all archaeological/cultural documents created as a part of the project (isolate records, site records, survey reports, testing reports, etc.) shall be supplied to the applicant and Lead Agency for dissemination to SMBMI. The Lead Agency and/or applicant shall, in good faith, consult with SMBMI, and other tribes as applicable, throughout the life of the project.</p> | <p>This topic will be contained in the WEAP training that will be given to employees at least one day prior to construction.</p> | <p>HDWD</p> | <p>Verification of implementation shall be based on field inspections by HDWD inspection personnel that verify the measure is being implemented during construction. Field notes documenting verification shall be retained in the project file.</p> | |
| WILDFIRE | | | | |
| <p>FIRE-1 During construction, all staging areas, welding areas, or areas slated for construction using spark-producing equipment will be cleared of dried vegetation or other material that could ignite. Spark arresting equipment shall be in good working order. The Hi-Desert Water District and/or its contractor shall require all vehicles and crews working at the project site to have access to functional fire extinguishers at all times. In addition, construction crews are required to have a spotter during welding activities to look out for potentially dangerous</p> | <p>This topic will be contained in the WEAP training that will be given to employees at least one day prior to construction.</p> | <p>Contractor/HDWD</p> | <p>Verification of implementation shall be based on field inspections by HDWD inspection personnel that verify the measure is being implemented during construction. Field notes documenting verification shall be retained in the project file.</p> | |

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| <p>situations, including accidental sparks. The contractor also shall provide a safety plan for the implementation of additional protocols when the National Weather Service issues a Red Flag Warning. Such protocols should address smoking and fire rules, storage and parking areas, use of gasoline-powered tools, use of spark arresters on construction equipment, road closures, use of a fire guard, fire suppression tools, fire suppression equipment, and training requirements.</p> | | | | |