



**Mitigation Monitoring and Reporting Program
General Plan and Development Code Update
City of Fresno, Fresno County, California**

State Clearinghouse Number 2012111015

Prepared for:



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MITIGATION MONITORING AND REPORTING PROGRAM

The following Mitigation Monitoring and Reporting Program (MMRP) for the General Plan and Development Code Update has been prepared pursuant to Section 15097 of the CEQA Guidelines and Section 21081.6 of the Public Resources Code. This MMRP lists all applicable mitigation measures from the EIR for the project. The appropriate timing of implementation and responsible party are identified to ensure proper enforcement of the mitigation measures from the EIR to reduce project impacts to less than significant levels.

The following MMRP identifies the entity responsible for verifying that the mitigation measures for the project are performed. The City of Fresno, as lead agency, will also be responsible for providing a date that each mitigation measure is verified as completed. In addition, the MMRP provides a comment column for the responsible entity to provide notes. The timing of implementing the mitigation measures in the MMRP is identified in each measure.

The performance of the mitigation measures is the responsibility of the City of Fresno because it is the project applicant. The project applicant is responsible to provide evidence that the mitigation measures are performed and completed.

Table 1: City of Fresno General Plan and Development Code Update Mitigation Monitoring and Reporting Program

Mitigation Measure	Timing of Implementation	Responsible Agency/Department	Comments
Section 5.1 – Aesthetics			
MM AES-1: Lighting systems for street and parking areas shall include shields to direct light to the roadway surfaces and parking areas. Vertical shields on the light fixtures shall also be used to direct light away from adjacent light sensitive land uses such as residences.	Prior to the issuance of building permits	Public Works Department	
MM AES-2: Lighting systems for public facilities such as active play areas shall provide adequate illumination for the activity; however, low intensity light fixtures and shields shall be used to minimize spillover light onto adjacent properties.	Prior to the issuance of building permits	Public Works Department	
MM AES-3: Lighting systems for non-residential uses, not including public facilities, shall provide shields on the light fixtures and orient the lighting system away from adjacent properties. Low intensity light fixtures shall also be used if excessive spillover light onto adjacent properties will occur.	Prior to the issuance of building permits	Public Works Department	
MM AES-4: Lighting systems for freestanding signs shall not exceed 100 foot Lamberts (FT-L) when adjacent to streets which have an average light intensity of less than 2.0 horizontal footcandles and shall not exceed 500 FT-L when adjacent to streets which have an average light intensity of 2.0 horizontal footcandles or greater.	Prior to the issuance of sign permits	Public Works Department	
MM AES-5: Materials used on building facades shall be non-reflective.	Prior to the issuance of building permits	Public Works Department	

Table 1 (cont.): City of Fresno General Plan and Development Code Update Mitigation Monitoring and Reporting Program

Mitigation Measure	Timing of Implementation	Responsible Agency/Department	Comments
Section 5.3 – Air Quality			
<p>MM AIR-1: Projects that include five or more heavy-duty truck deliveries per day with sensitive receptors located within 300 feet of the truck loading area shall provide a screening analysis to determine if the project has the potential to exceed criteria pollutant concentration based standards and thresholds for NO₂ and PM_{2.5}. If projects exceed screening criteria, refined dispersion modeling and health risk assessment shall be accomplished and if needed, mitigation measures to reduce impacts shall be included in the project to reduce the impacts to the extent feasible. Mitigation measures include but are not limited to:</p> <ul style="list-style-type: none"> • Locate loading docks and truck access routes as far from sensitive receptors as reasonably possible considering site design limitations to comply with other City design standards. • Post signs requiring drivers to limit idling to 5 minutes or less. 	<p>Prior to issuance of building permits</p>	<p>Development and Resource Management Department</p>	
<p>MM AIR-2: Projects that result in an increased cancer risk of 10 in a million or exceed criteria pollutant ambient air quality standards shall implement site-specific measures that reduce TAC exposure to reduce excess cancer risk to less than 10 in a million. Possible control measures include but are not limited to:</p> <ul style="list-style-type: none"> • Locate loading docks and truck access routes as far from sensitive receptors as reasonably possible considering site design limitations to comply with other City design standards. • Post signs requiring drivers to limit idling to 5 minutes or less • Construct block walls to reduce the flow of emissions toward sensitive receptors • Install a vegetative barrier downwind from the TAC source that can absorb a portion of the diesel PM emissions • For projects proposing to locate a new building containing 	<p>Prior to issuance of building permits</p>	<p>Development and Resource Management Department</p>	

Table 1 (cont.): City of Fresno General Plan and Development Code Update Mitigation Monitoring and Reporting Program

Mitigation Measure	Timing of Implementation	Responsible Agency/Department	Comments
sensitive receptors near existing sources of TAC emissions, install HEPA filters in HVAC systems to reduce TAC emission levels exceeding risk thresholds. <ul style="list-style-type: none"> • Install heating and cooling services at truck stops to eliminate the need for idling during overnight stops to run onboard systems. • For large distribution centers where the owner controls the vehicle fleet, provide facilities to support alternative fueled trucks powered by fuels such as natural gas or bio-diesel. • Utilize electric powered material handling equipment where feasible for the weight and volume of material to be moved. 			
MM AIR-3: Require developers proposing projects on ARB’s list of projects in its Air Quality and Land Use Handbook (Handbook) warranting special consideration to prepare a cumulative health risk assessment when sensitive receptors are located within the distance screening criteria of the facility as listed in the ARB Handbook.	Prior to issuance of building permits	Development and Resource Management Department	
MM AIR-4: Require developers of projects containing sensitive receptors to provide a cumulative health risk assessment at project locations exceeding ARB Land Use Handbook distance screening criteria or newer criteria that may be developed by the SJVAPCD.	Prior to issuance of building permits	Development and Resource Management Department	
MM AIR-5: Require developers of projects with the potential to generate significant odor impacts as determined through review of SJVAPCD odor complaint history for similar facilities and consultation with the SJVAPCD to prepare an odor impact assessment and to implement odor control measures recommended by the SJVAPCD or the City to the extent needed to reduce the impact to less than significant.	Prior to issuance of building permits	Development and Resource Management Department	

Table 1 (cont.): City of Fresno General Plan and Development Code Update Mitigation Monitoring and Reporting Program

Mitigation Measure	Timing of Implementation	Responsible Agency/Department	Comments
Section 5.4 – Biological Resources			
<p>MM BIO-1: Construction of a proposed project should avoid, where possible, vegetation communities that provide suitable habitat for a special-status species known to occur within the Planning Area. If construction within potentially suitable habitat must occur, the presence/absence of any special-status plant or wildlife species must be determined prior to construction, to determine if the habitat supports any special-status species. If a special-status species are determined to occupy any portion of a project site, avoidance and minimization measures shall be incorporated into the construction phase of a project to avoid direct or incidental take of a listed species to the greatest extent feasible.</p>	<p>Prior to commencement of construction activities</p>	<p>Development and Resource Management Department</p>	
<p>MM BIO-2: Direct or incidental take of any state or federally listed species should be avoided to the greatest extent feasible. If construction of a proposed project will result in the direct or incidental take of a listed species, consultation with the resources agencies and/or additional permitting may be required. Agency consultation through the CDFW 2081 and USFWS Section 7 or Section 10 permitting processes must take place prior to any action that may result in the direct or incidental take of a listed species. Specific mitigation measures for direct or incidental impacts to a listed species will be determined on a case-by-case basis through agency consultation.</p>	<p>Prior to commencement of construction activities</p>	<p>Development and Resource Management Department</p>	
<p>MM BIO-3: Development within the Planning Area should avoid, where possible, special-status natural communities and vegetation communities that provide suitable habitat for special-status species. If a proposed project will result in the loss of a special-status natural community or suitable habitat for special-status species, compensatory habitat-based mitigation is</p>	<p>Prior to commencement of construction activities</p>	<p>Development and Resource Management Department</p>	

Table 1 (cont.): City of Fresno General Plan and Development Code Update Mitigation Monitoring and Reporting Program

Mitigation Measure	Timing of Implementation	Responsible Agency/Department	Comments
<p>required under CEQA and CESA. Mitigation will consist of preserving on-site habitat, restoring similar habitat or purchasing off-site credits from an approved mitigation bank. Compensatory mitigation will be determined through consultation with the City and/or resource agencies. An appropriate mitigation strategy and ratio will be agreed upon by the developer and lead agency to reduce project impacts to special-status natural communities to a less than significant level. Agreed-upon mitigation ratios will depend on the quality of the habitat and presence/absence of a special-status species. The specific mitigation for project level impacts will be determined on a case-by-case basis.</p>			
<p>MM BIO-4: Proposed projects within the Planning Area should avoid, if possible, construction within the general nesting season of February through August for avian species protected under Fish and Game Code 3500 and the Migratory Bird Treaty Act (MBTA), if it is determined that suitable nesting habitat occurs on a project site. If construction cannot avoid the nesting season, a pre-construction clearance survey must be conducted to determine if any nesting birds or nesting activity is observed on or within 500-feet of a project site. If an active nest is observed during the survey, a biological monitor must be on site to ensure that no proposed project activities would impact the active nest. A suitable buffer will be established around the active nest until the nestlings have fledged and the nest is no longer active. Project activities may continue in the vicinity of the nest only at the discretion of the biological monitor.</p>	<p>Prior to commencement of and during construction activities</p>	<p>Development and Resource Management Department</p>	
<p>MM BIO-5: If a proposed project will result in the removal or impact to any riparian habitat and/or a special-status natural community with potential to occur in the Planning Area, compensatory habitat-based mitigation shall be required to</p>	<p>Prior to construction activities</p>	<p>Development and Resource Management Department</p>	

Table 1 (cont.): City of Fresno General Plan and Development Code Update Mitigation Monitoring and Reporting Program

Mitigation Measure	Timing of Implementation	Responsible Agency/Department	Comments
<p>reduce project impacts. Compensatory mitigation must involve the preservation or restoration or the purchase of off-site mitigation credits for impacts to riparian habitat and/or a special-status natural community. Mitigation must be conducted in-kind or within an approved mitigation bank in the region. The specific mitigation ratio for habitat-based mitigation will be determined through consultation with the appropriate agency (i.e., CDFW or USFWS) on a case-by-case basis.</p>			
<p>MM BIO-6: Project impacts that occur to riparian habitat may also result in significant impacts to streambeds or waterways protected under Section 1600 of Fish and Wildlife Code and Section 404 of the CWA. CDFW and/or USACE consultation, determination of mitigation strategy, and regulatory permitting to reduce impacts, as required for projects that remove riparian habitat and/or alter a streambed or waterway, shall be implemented.</p>	<p>Prior to construction activities</p>	<p>Development and Resource Management Department</p>	
<p>MM BIO-7: Project-related impacts to riparian habitat or a special-status natural community may result in direct or incidental impacts to special-status species associated with riparian or wetland habitats. Project impacts to special-status species associated with riparian habitat shall be mitigated through agency consultation, development of a mitigation strategy, and/or issuing incidental take permits for the specific special-status species, as determined by the CDFW and/or USFWS.</p>	<p>Prior to construction activities</p>	<p>Development and Resource Management Department</p>	
<p>MM BIO-8: If a proposed project will result in the significant alteration or fill of a federally protected wetland, a formal wetland delineation conducted according to USACE accepted methodology is required for each project to determine the extent of wetlands on a project site. The delineation shall be used to determine if federal permitting and mitigation strategy</p>	<p>Prior to construction activities</p>	<p>Development and Resource Management Department</p>	

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<p>are required to reduce project impacts. Acquisition of permits from USACE for the fill of wetlands and USACE approval of a wetland mitigation plan would ensure a “no net loss” of wetland habitat within the Planning Area. Appropriate wetland mitigation/creation shall be implemented in a ratio according to the size of the impacted wetland.</p>			
<p>MM BIO-9: In addition to regulatory agency permitting, Best Management Practices identified from a list provided by the USACE shall be incorporated into the design and construction phase of the project to ensure that no pollutants or siltation drain into a federally protected wetland. Project design features such as fencing, appropriate drainage and incorporating detention basins shall assist in ensuring project-related impacts to wetland habitat are minimized to the greatest extent feasible.</p>	<p>Implementation of temporary construction-related BMPs shall occur prior to commencement of and during construction activities; implementation of long-term operational BMPs shall occur prior to issuance of occupancy permits</p>	<p>Development and Resource Management Department</p>	
<p>Section 5.5 – Cultural Resources</p>			
<p>MM CUL-1: If previously unknown resources are encountered before or during grading activities, construction shall stop in the immediate vicinity of the find and a qualified historical resources specialist shall be consulted to determine whether the resource requires further study. The qualified historical resources specialist shall make recommendations to the City on the measures that shall be implemented to protect the discovered resources, including but not limited to excavation of the finds and evaluation of the finds in accordance with Section 15064.5 of the CEQA Guidelines and the City’s Historic Preservation Ordinance.</p> <p>If the resources are determined to be unique historical resources as defined under Section 15064.5 of the CEQA</p>	<p>Prior to commencement of and during construction activities</p>	<p>Development and Resource Management Department</p>	

Table 1 (cont.): City of Fresno General Plan and Development Code Update Mitigation Monitoring and Reporting Program

Mitigation Measure	Timing of Implementation	Responsible Agency/Department	Comments
<p>Guidelines, measures shall be identified by the monitor and recommended to the Lead Agency. Appropriate measures for significant resources could include avoidance or capping, incorporation of the site in green space, parks, or open space, or data recovery excavations of the finds.</p> <p>No further grading shall occur in the area of the discovery until the Lead Agency approves the measures to protect these resources. Any historical artifacts recovered as a result of mitigation shall be provided to a City-approved institution or person who is capable of providing long-term preservation to allow future scientific study.</p>			
<p>MM CUL-2: Subsequent to a preliminary City review of the project grading plans, if there is evidence that a project will include excavation or construction activities within previously undisturbed soils, a field survey and literature search for prehistoric archaeological resources shall be conducted. The following procedures shall be followed.</p> <p>If prehistoric resources are not found during either the field survey or literature search, excavation and/or construction activities can commence. In the event that buried prehistoric archaeological resources are discovered during excavation and/or construction activities, construction shall stop in the immediate vicinity of the find and a qualified archaeologist shall be consulted to determine whether the resource requires further study. The qualified archaeologist shall make recommendations to the City on the measures that shall be implemented to protect the discovered resources, including but not limited to excavation of the finds and evaluation of the finds in accordance with Section 15064.5 of the CEQA Guidelines. If the resources are determined to be unique prehistoric archaeological resources as defined under Section 15064.5 of</p>	<p>Prior to commencement of and during construction activities</p>	<p>Development and Resource Management Department</p>	

Table 1 (cont.): City of Fresno General Plan and Development Code Update Mitigation Monitoring and Reporting Program

Mitigation Measure	Timing of Implementation	Responsible Agency/Department	Comments
<p>the CEQA Guidelines, mitigation measures shall be identified by the monitor and recommended to the Lead Agency. Appropriate measures for significant resources could include avoidance or capping, incorporation of the site in green space, parks, or open space, or data recovery excavations of the finds. No further grading shall occur in the area of the discovery until the Lead Agency approves the measures to protect these resources. Any prehistoric archaeological artifacts recovered as a result of mitigation shall be provided to a City-approved institution or person who is capable of providing long-term preservation to allow future scientific study.</p> <p>If prehistoric resources are found during the field survey or literature review, the resources shall be inventoried using appropriate State record forms and submit the forms to the Southern San Joaquin Valley Information Center. The resources shall be evaluated for significance. If the resources are found to be significant, measures shall be identified by the qualified archaeologist. Similar to above, appropriate mitigation measures for significant resources could include avoidance or capping, incorporation of the site in green space, parks, or open space, or data recovery excavations of the finds. In addition, appropriate mitigation for excavation and construction activities in the vicinity of the resources found during the field survey or literature review shall include an archaeological monitor. The monitoring period shall be determined by the qualified archaeologist. If additional prehistoric archaeological resources are found during excavation and/or construction activities, the procedure identified above for the discovery of unknown resources shall be followed.</p>			
<p>MM CUL-3: Subsequent to a preliminary City review of the project grading plans, if there is evidence that a project will</p>	<p>Prior to commencement of and during construction</p>	<p>Development and Resource Management Department</p>	

Table 1 (cont.): City of Fresno General Plan and Development Code Update Mitigation Monitoring and Reporting Program

Mitigation Measure	Timing of Implementation	Responsible Agency/Department	Comments
<p>include excavation or construction activities within previously undisturbed soils, a field survey and literature search for unique paleontological/geological resources shall be conducted. The following procedures shall be followed:</p> <p>If unique paleontological/geological resources are not found during either the field survey or literature search, excavation and/or construction activities can commence. In the event that unique paleontological/geological resources are discovered during excavation and/or construction activities, construction shall stop in the immediate vicinity of the find and a qualified paleontologist shall be consulted to determine whether the resource requires further study. The qualified paleontologist shall make recommendations to the City on the measures that shall be implemented to protect the discovered resources, including but not limited to, excavation of the finds and evaluation of the finds. If the resources are determined to be significant, mitigation measures shall be identified by the monitor and recommended to the Lead Agency. Appropriate mitigation measures for significant resources could include avoidance or capping, incorporation of the site in green space, parks, or open space, or data recovery excavations of the finds. No further grading shall occur in the area of the discovery until the Lead Agency approves the measures to protect these resources. Any paleontological/geological resources recovered as a result of mitigation shall be provided to a City-approved institution or person who is capable of providing long-term preservation to allow future scientific study.</p> <p>If unique paleontological/geological resources are found during the field survey or literature review, the resources shall be inventoried and evaluated for significance. If the resources are found to be significant, mitigation measures shall be identified</p>	<p>activities</p>		

Table 1 (cont.): City of Fresno General Plan and Development Code Update Mitigation Monitoring and Reporting Program

Mitigation Measure	Timing of Implementation	Responsible Agency/Department	Comments
<p>by the qualified paleontologist. Similar to above, appropriate mitigation measures for significant resources could include avoidance or capping, incorporation of the site in green space, parks, or open space, or data recovery excavations of the finds. In addition, appropriate mitigation for excavation and construction activities in the vicinity of the resources found during the field survey or literature review shall include a paleontological monitor. The monitoring period shall be determined by the qualified paleontologist. If additional paleontological/geological resources are found during excavation and/or construction activities, the procedure identified above for the discovery of unknown resources shall be followed.</p>			
<p>MM CUL-4: In the event that human remains are unearthed during excavation and grading activities of any future development project, all activity shall cease immediately. Pursuant to Health and Safety Code (HSC) Section 7050.5, no further disturbance shall occur until the County Coroner has made the necessary findings as to origin and disposition pursuant to PRC Section 5097.98(a). If the remains are determined to be of Native American descent, the coroner shall within 24 hours notify the Native American Heritage Commission (NAHC). The NAHC shall then contact the most likely descendent of the deceased Native American, who shall then serve as the consultant on how to proceed with the remains. Pursuant to PRC Section 5097.98(b), upon the discovery of Native American remains, the landowner shall ensure that the immediate vicinity, according to generally accepted cultural or archaeological standards or practices, where the Native American human remains are located is not damaged or disturbed by further development activity until the landowner has discussed and conferred with the most likely</p>	<p>Prior to commencement of and during construction activities</p>	<p>Development and Resource Management Department</p>	

Table 1 (cont.): City of Fresno General Plan and Development Code Update Mitigation Monitoring and Reporting Program

Mitigation Measure	Timing of Implementation	Responsible Agency/Department	Comments
descendants regarding their recommendations, if applicable, taking into account the possibility of multiple human remains. The landowner shall discuss and confer with the descendants all reasonable options regarding the descendants' preferences for treatment.			
Section 5.8 – Hazards and Hazardous Materials			
MM HAZ-1: Re-designate the existing vacant land proposed for low density residential northwest of the intersection of E Garland Avenue and N Dearing Avenue and located within Fresno Yosemite International Airport Zone 1- RPZ to Open Space.	Prior to development approvals	Development and Resource Management Department	
MM HAZ-2: Limit the proposed low density residential at 1-3 dwelling units per acre located northwest of the airport and located within Fresno Yosemite International Airport Zone 3- Inner Turning to 2 dwelling units per acre or less.	Prior to development approvals	Development and Resource Management Department	
MM HAZ-3: Re-designate the current area within Fresno Yosemite International Airport Zone 5-Sideline located northeast of the airport to Public Facilities-Airport or Open Space.	Prior to development approvals	Development and Resource Management Department	
MM HAZ-4: Redesignate the current vacant lots at the northeast corner of Kearney Boulevard and Thorne Avenue to Public Facilities-Airport or Open Space.	Prior to development approvals	Development and Resource Management Department	
MM HAZ-5: Prohibit residential uses within Safety Zone 1 northwest of the W. Hawes Avenue and Thorne Avenue intersection	Prior to development approvals	Development and Resource Management Department	
MM HAZ-6: Establish an alternative Emergency Operations Center in the event the current Emergency Operations Center is under redevelopment or blocked.	Prior to redevelopment of the current Emergency Operations Center	Development and Resource Management Department	

Table 1 (cont.): City of Fresno General Plan and Development Code Update Mitigation Monitoring and Reporting Program

Mitigation Measure	Timing of Implementation	Responsible Agency/Department	Comments
Section 5.9 – Hydrology and Water Quality			
MM HYD-1.: The City shall develop and implement water conservation measures to reduce the per capita water use to 215 gallons per capita per day.	Prior to water demand exceeding water supply	Public Works Department	
MM HYD-2.: The City shall continue to be an active participant in the Kings Water Authority and the implementation of the Kings Basin IRWMP.	Ongoing	Public Works Department	
<p>MM HYD-5.1: The City shall implement the following measures to reduce the impacts on the capacity of existing or planned storm drainage Master Plan collection systems to less than significant.</p> <p>Implement the existing Storm Drainage Master Plan (SDMP) for collection systems in drainage areas where the amount of imperviousness is unaffected by the change in land uses.</p> <p>Update the SDMP in those drainage areas where the amount of imperviousness increased due to the change in land uses to determine the changes in the collection systems that would need to occur to provide adequate capacity for the stormwater runoff from the increased imperviousness.</p> <p>Implementation of the updated SDMP to provide stormwater collection systems that have sufficient capacity to convey the peak runoff rates from the areas of increased imperviousness.</p> <p>Require developments that increase site imperviousness to install, operate, and maintain FMFCD approved on-site detention systems to reduce the peak runoff rates resulting from the increased imperviousness to the peak runoff rates that will not exceed the capacity of the existing stormwater collection systems.</p>	Prior to exceedance of capacity of existing stormwater drainage facilities	Public Works Department	

Table 1 (cont.): City of Fresno General Plan and Development Code Update Mitigation Monitoring and Reporting Program

Mitigation Measure	Timing of Implementation	Responsible Agency/Department	Comments
<p>MM HYD-5.2: The City shall implement the following measures to reduce the impacts on the capacity of existing or planned storm drainage Master Plan retention basins to less than significant.</p> <p>Update the SDMP to analyze the impacts to existing and planned retention basins to determine remedial measures required to reduce the impact on retention basin capacity to less than significant. Remedial measures would include:</p> <ol style="list-style-type: none"> 1. Increase the size of the retention basin through the purchase of more land or deepening the basin or a combination for planned retention basins. 2. Increase the size of the emergency relief pump capacity required to pump excess runoff volume out of the basin and into adjacent canal that convey the stormwater to a disposal facility for existing retention basins. 3. Require developments that increase runoff volume to install, operate, and maintain, Low Impact Development (LID) measures to reduce runoff volume to the runoff volume that will not exceed the capacity of the existing retention basins. 	<p>Prior to exceedance of capacity of existing retention basin facilities</p>	<p>Public Works Department</p>	
<p>MM HYD-5.3: The City shall implement the following measures to reduce the impacts on the capacity of existing or planned storm drainage Master Plan urban detention (stormwater quality) basins to less than significant.</p> <p>Updating the SDMP to determine the impacts to the urban detention basin weir overflow rates and determine remedial measures required to reduce the impact on the detention basin capacity to less than significant. Remedial measures would include:</p> <ol style="list-style-type: none"> 1. Modify overflow weir to maintain the suspended solids removal rates adopted by the FMFCD Board of Directors. 2. Increase the size of the urban detention basin to increase 	<p>Prior to exceedance of capacity of existing urban detention basin (stormwater quality) facilities</p>	<p>Public Works Department</p>	

Table 1 (cont.): City of Fresno General Plan and Development Code Update Mitigation Monitoring and Reporting Program

Mitigation Measure	Timing of Implementation	Responsible Agency/Department	Comments
<p>residence time by purchasing more land. The existing detention basins are already at the adopted design depth.</p> <p>3. Require developments that increase runoff volume to install, operate, and maintain, Low Impact Development (LID) measures to reduce peak runoff rates and runoff volume to the runoff rates and volumes that will not exceed the weir overflow rates of the existing urban detention basins.</p>			
<p>MM HYD-5.4: The City shall implement the following measures to reduce the impacts on the capacity of existing or planned storm drainage Master Plan pump disposal systems to less than significant.</p> <p>1. Update the SDMP to determine the extent and degree to which the capacity of the existing pump system will be exceeded.</p> <p>2. Require new developments to install, operate, and maintain FMFCD design standard on-site detention facilities to reduce peak stormwater runoff rates to existing planned peak runoff rates.</p> <p>3. Provide additional pump system capacity to maximum allowed by existing permitting to increase the capacity to match or exceed the peak runoff rates determined by the SDMP update.</p>	<p>Prior to exceedance of capacity of existing pump disposal systems</p>	<p>Public Works Department</p>	
<p>MM HYD-5.5: The City shall develop and adopt a storm drainage master plan update to the SDMP for the Southeast Development Area that is designed to collect, convey and dispose of runoff rates and volumes based on the planned land uses of the General Plan Update.</p>	<p>Prior to development approvals in the Southeast Development Area</p>	<p>Public Works Department</p>	
<p>Section 5.13 – Public Services</p>			
<p>MM PS-1: As future fire facilities are planned, the fire department shall evaluate if specific environmental effects</p>	<p>During the planning process for future fire</p>	<p>Development and Resource Management Department</p>	

Table 1 (cont.): City of Fresno General Plan and Development Code Update Mitigation Monitoring and Reporting Program

Mitigation Measure	Timing of Implementation	Responsible Agency/Department	Comments
<p>would occur. Typical impacts from fire facilities include noise, traffic, and lighting. Typical mitigation to reduce potential impacts includes:</p> <ul style="list-style-type: none"> • <i>Noise</i>: Barriers and setbacks on the fire department sites. • <i>Traffic</i>: Traffic devices for circulation and a “keep clear zone” during emergency responses. • <i>Lighting</i>: Provision of hoods and deflectors on lighting fixtures on the fire department sites. 	<p>department facilities</p>		
<p>MM PS-2: As future police facilities are planned, the police department shall evaluate if specific environmental effects would occur. Typical impacts from police facilities include noise, traffic, and lighting. Typical mitigation to reduce potential impacts includes:</p> <ul style="list-style-type: none"> • <i>Noise</i>: Barriers and setbacks on the police department sites. • <i>Traffic</i>: Traffic devices for circulation. • <i>Lighting</i>: Provision of hoods and deflectors on lighting fixtures on the fire department sites. 	<p>During the planning process for future police department facilities</p>	<p>Development and Resource Management Department</p>	
<p>MM PS-3: As future school facilities are planned, the school districts shall evaluate if specific environmental effects would occur. Typical impacts from school facilities include noise, traffic, and lighting. Typical mitigation to reduce potential impacts includes:</p> <ul style="list-style-type: none"> • <i>Noise</i>: Barriers and setbacks placed on school sites. • <i>Traffic</i>: Traffic devices for circulation. • <i>Lighting</i>: Provision of hoods and deflectors on lighting fixtures for stadium lights. 	<p>During the planning process for future school facilities</p>	<p>Development and Resource Management Department</p>	

Table 1 (cont.): City of Fresno General Plan and Development Code Update Mitigation Monitoring and Reporting Program

Mitigation Measure	Timing of Implementation	Responsible Agency/Department	Comments
<p>MM PS-4: As future parks and recreational facilities are planned, the City shall evaluate if specific environmental effects would occur. Typical impacts from school facilities include noise, traffic, and lighting. Typical mitigation to reduce potential impacts includes:</p> <ul style="list-style-type: none"> • <i>Noise:</i> Barriers and setbacks placed on school sites. • <i>Traffic:</i> Traffic devices for circulation. • <i>Lighting:</i> Provision of hoods and deflectors on lighting fixtures for stadium lights. 	<p>During the planning process for future park and recreation facilities</p>	<p>Development and Resource Management Department</p>	
<p>MM PS-5: As future court, library, and hospital facilities are planned, the appropriate agencies shall evaluate if specific environmental effects would occur. Typical impacts from court, library, and hospital facilities include noise, traffic, and lighting. Typical mitigation to reduce potential impacts includes:</p> <ul style="list-style-type: none"> • <i>Noise:</i> Barriers and setbacks placed on school sites. • <i>Traffic:</i> Traffic devices for circulation. • <i>Lighting:</i> Provision of hoods and deflectors on lighting fixtures for stadium lights. 	<p>During the planning process for future court, library, and hospital facilities</p>	<p>Development and Resource Management Department</p>	
<p>Section 5.15 – Utilities and Service Systems</p>			
<p>MM USS-1: The City shall develop and implement a wastewater master plan update.</p>	<p>Prior to wastewater conveyance and treatment demand exceeding capacity</p>	<p>Public Works Department</p>	
<p>MM USS-2: Prior to exceeding existing wastewater treatment capacity, the City shall evaluate the wastewater system and shall not approve additional development that contributes wastewater to the wastewater treatment facility that could exceed capacity until additional capacity is provided. By approximately the year 2025, the City shall construct the following improvements.</p>	<p>Prior to exceeding existing wastewater treatment capacity</p>	<p>Public Works Department</p>	

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Mitigation Measure	Timing of Implementation	Responsible Agency/Department	Comments
<ul style="list-style-type: none"> Construct an approximately 70 MGD expansion of the Regional Wastewater Treatment Facility and obtain revised waste discharge permits as the generation of wastewater is increased. Construct an approximately 0.49 MGD expansion of the North Facility and obtain revised waste discharge permits as the generation of wastewater is increased. 			
<p>MM USS-3: Prior to exceeding existing wastewater treatment capacity, the City shall evaluate the wastewater system and shall not approve additional development that contributes wastewater to the wastewater treatment facility that could exceed capacity until additional capacity is provided. After approximately the year 2025, the City shall construct the following improvements.</p> <ul style="list-style-type: none"> Construct an approximately 24 MGD Wastewater Treatment Facility within the Southeast Development Area and obtain revised waste discharge permits as the generation of wastewater is increased. Construct an approximately 9.6 MGD expansion of the Regional Wastewater Treatment Facility and obtain revised waste discharge permits as the generation of wastewater is increased. 	<p>Prior to exceeding existing wastewater treatment capacity</p>	<p>Public Works Department</p>	
<p>MM USS-4: A Traffic Control/Traffic Management Plan to address traffic impacts during construction of water and sewer facilities shall be prepared and implemented subject to approval by the City prior to construction. The plan shall identify hours of construction and for deliveries, include haul routes, identify access and parking restrictions, plan for notifications, identify pavement markings and signage, and a plan for coordination with emergency service providers and schools.</p>	<p>Prior to construction of water and sewer facilities</p>	<p>Public Works Department</p>	
<p>MM USS-5: Prior to exceeding existing water supply capacity,</p>	<p>Prior to exceeding existing</p>	<p>Public Works Department</p>	

Table 1 (cont.): City of Fresno General Plan and Development Code Update Mitigation Monitoring and Reporting Program

Mitigation Measure	Timing of Implementation	Responsible Agency/Department	Comments
<p>the City shall evaluate the water supply system and shall not approve additional development that demand additional water until additional capacity is provided. By approximately the year 2025, the following capacity improvements shall be provided.</p> <ul style="list-style-type: none"> Construct an approximately 80 million gallon per day (MGD) surface water treatment facility near the intersection of Armstrong and Olive Avenues, in accordance with Chapter 9 and Figure 9-1 of the City of Fresno Metropolitan Water Resources Management Plan Update Phase 2 Report, January 2012 (2012 Metro Plan Update). Construct an approximately 30 MGD expansion of the existing northeast surface water treatment facility for a total capacity of 60 MGD, in accordance with Chapter 9 and Figure 9-1 of the 2012 Metro Plan Update. Construct an approximately 20 MGD surface water treatment facility in the southwest portion of the City, in accordance with Chapter 9 and Figure 9-1 of the 2012 Metro Plan Update. 	<p>water supply capacity</p>		
<p>MM USS-6: Prior to exceeding capacity within the existing wastewater collection system facilities, the City shall evaluate the wastewater collection system and shall not approve additional development that would generate additional wastewater and exceed the capacity of a facility until additional capacity is provided. By approximately the year 2025, the following capacity improvements shall be provided.</p> <ul style="list-style-type: none"> Orange Avenue Trunk Sewer: This facility shall be improved between Dakota and Jensen Avenues. Approximately 37,240 feet of new sewer main shall be installed and approximately 5,760 feet of existing sewer main shall be rehabilitated. The size of the new sewer main shall range from 27-inches to 42-inches in diameter. The associated project designations in the 	<p>Prior to exceeding capacity within the existing wastewater collection system facilities</p>	<p>Public Works Department</p>	

Table 1 (cont.): City of Fresno General Plan and Development Code Update Mitigation Monitoring and Reporting Program

Mitigation Measure	Timing of Implementation	Responsible Agency/Department	Comments
<p>2006 Wastewater Master Plan are RS03A, RL02, C01-REP, C02-REP, C03-REP, C04-REP, C05-REP, C06-REL and C07-REP.</p> <ul style="list-style-type: none"> • Marks Avenue Trunk Sewer: This facility shall be improved between Clinton Avenue and Kearney Boulevard. Approximately 12,150 feet of new sewer main shall be installed. The size of the new sewer main shall range from 33-inches to 60-inches in diameter. The associated project designations in the 2006 Wastewater Master Plan are CM1-REP and CM2-REP. • North Avenue Trunk Sewer: This facility shall be improved between Polk and Fruit Avenues and also between Orange and Maple Avenues. Approximately 25,700 feet of new sewer main shall be installed. The size of the new sewer main shall range from 48-inches to 66-inches in diameter. The associated project designations in the 2006 Wastewater Master Plan are CN1-REL1 and CN3-REL1. • Ashlan Avenue Trunk Sewer: This facility shall be improved between Hughes and West Avenues and also between Fruit and Blackstone Avenues. Approximately 9,260 feet of new sewer main shall be installed. The size of the new sewer main shall range from 24-inches to 36-inches in diameter. The associated project designations in the 2006 Wastewater Master Plan are CA1-REL and CA2-REP. 			
<p>MM USS-7: Prior to exceeding capacity within the existing 28 pipeline segment shown on Figures 1 and 2 in Appendix J-1, the City shall evaluate the wastewater collection system and shall not approve additional development that would generate additional wastewater and exceed the capacity of one of the 28 pipeline segments until additional capacity is provided.</p>	<p>Prior to exceeding capacity within the existing 28 pipeline segments shown on Figures 1 and 2 in Appendix J-1 of the MEIR</p>	<p>Public Works Department</p>	
<p>MM USS-8: Prior to exceeding capacity within the existing water conveyance facilities, the City shall evaluate the water</p>	<p>Prior to exceeding capacity within the existing water</p>	<p>Public Works Department</p>	

Table 1 (cont.): City of Fresno General Plan and Development Code Update Mitigation Monitoring and Reporting Program

Mitigation Measure	Timing of Implementation	Responsible Agency/Department	Comments
<p>conveyance system and shall not approve additional development that would demand additional water and exceed the capacity of a facility until additional capacity is provided. The following capacity improvements shall be provided by approximately 2025.</p> <ul style="list-style-type: none"> • Construct 65 new groundwater wells, in accordance with Chapter 9 and Figure 9-1 of the 2012 Metro Plan Update. • Construct a 2.0 million gallon potable water reservoir (Reservoir T2) near the intersection of Clovis and California Avenues, in accordance with Chapter 9 and Figure 9-1 of the 2012 Metro Plan Update. • Construct a 3.0 million gallon potable water reservoir (Reservoir T3) near the intersection of Temperance and Dakota Avenues, in accordance with Chapter 9 and Figure 9-1 of the 2012 Metro Plan Update. • Construct a 3.0 million gallon potable water reservoir (Reservoir T4) in the Downtown Planning Area, in accordance with Chapter 9 and Figure 9-1 of the 2012 Metro Plan Update. • Construct a 4.0 million gallon potable water reservoir (Reservoir T5) near the intersection of Ashlan and Chestnut Avenues, in accordance with Chapter 9 and Figure 9-1 of the 2012 Metro Plan Update. • Construct a 4.0 million gallon potable water reservoir (Reservoir T6) near the intersection of Ashlan Avenue and Highway 99, in accordance with Chapter 9 and Figure 9-1 of the 2012 Metro Plan Update. • Construct 50.3 miles of regional water transmission mains ranging in size from 24-inch to 48-inch, in accordance with Chapter 9 and Figure 9-1 of the 2012 Metro Plan Update. • Construct 95.9 miles of 16-inch transmission grid mains, in accordance with Chapter 9 and Figure 9-1 of the 2012 	<p>conveyance facilities</p>		

Table 1 (cont.): City of Fresno General Plan and Development Code Update Mitigation Monitoring and Reporting Program

Mitigation Measure	Timing of Implementation	Responsible Agency/Department	Comments
Metro Plan Update.			
<p>MM USS-9: Prior to exceeding capacity within the existing water conveyance facilities, the City shall evaluate the water conveyance system and shall not approve additional development that would demand additional water and exceed the capacity of a facility until additional capacity is provided. The following capacity improvements shall be provided after approximately the year 2025 and additional water conveyance facilities shall be provided prior to exceedance of capacity within the water conveyance facilities to accommodate full buildout of the General Plan Update.</p> <ul style="list-style-type: none"> • Construct a 4.0 million gallon potable water reservoir (SEDA Reservoir 1) within the northern part of the Southeast Development Area. • Construct a 4.0 million gallon potable water reservoir (SEDA Reservoir 2) within the southern part of the Southeast Development Area. <p>Additional water conveyance facilities shall be provided prior to exceedance of capacity within the water conveyance facilities to accommodate full buildout of the General Plan Update.</p>	Prior to exceeding capacity within the existing water conveyance facilities	Public Works Department	
<p><i>Hydrology and Water Quality</i></p> <p>MM USS-10: Maintain operational intermittent flows during the dry season within define channel capacity and downstream capture capabilities for recharge.</p>	During the dry season	Fresno Metropolitan Flood Control District	

Table 1 (cont.): City of Fresno General Plan and Development Code Update Mitigation Monitoring and Reporting Program

Mitigation Measure	Timing of Implementation	Responsible Agency/Department	Comments
<p><i>Biological Resources</i> MM USS-11: (a) The FMFCD shall conduct preliminary investigations on undeveloped lands outside of highly urbanized areas. These investigations shall examine wetland hydrology, vegetation and soil types. These preliminary investigations shall be the basis for making a determination on whether or not more in-depth wetland studies shall be necessary. If the proposed project site does not exhibit wetland hydrology, support a prevalence of wetland vegetation and wetland soil types then no further action is required. (b) Where proposed activities could have an impact on areas verified by the Corps as jurisdictional wetlands or waters of the U.S. (urban and rural streams, seasonal wetlands, and vernal pools), FMFCD shall obtain the necessary Clean Water Act, Section 404 permits for activities where fill material shall be placed in a wetland, obstruct the flow or circulation of waters of the United States, impair or reduce the reach of such waters (as part of the FMFCD’s CDFG Memorandum of Understanding (MOU), Section 404 and 401 permits would be obtained from the U.S. Army Corps of Engineers and Regional Water Quality Control Board for any activity involving filling of jurisdictional waters). At a minimum, to meet “no net policy”, the permits shall require replacement of wetland habitat at a 1:1 ratio. (c) Where proposed activities could have an impact on areas verified by the Corps as jurisdictional wetlands or waters of the U.S. (urban and rural streams, seasonal wetlands, and vernal pools), FMFCD shall submit and implement a wetland mitigation plan based on the wetland acreage verified by the U.S. Army Corps of Engineers. The wetland mitigation plan shall be prepared by a qualified biologist or wetland scientist</p>	<p>Prior to development approvals outside of highly urbanized areas</p>	<p>Fresno Metropolitan Flood Control District</p>	

Table 1 (cont.): City of Fresno General Plan and Development Code Update Mitigation Monitoring and Reporting Program

Mitigation Measure	Timing of Implementation	Responsible Agency/Department	Comments
<p>experienced in wetland creation, and shall include the following or equally effective elements:</p> <ul style="list-style-type: none"> i. Specific location, size, and existing hydrology and soils within the wetland creation area. ii. Wetland mitigation techniques, seed source, planting specifications, and required buffer setbacks. In addition, the mitigation plan shall ensure adequate water supply is provided to the created wetlands in order to maintain the proper hydrologic regimes required by the different types of wetlands created. Provisions to ensure the wetland water supply is maintained in perpetuity shall be included in the plan. iii. A monitoring program for restored, enhanced, created, and preserved wetlands on the project site. A monitoring program is required to meet three objectives; 1) establish a wetland creation success criteria to be met, 2) to specify monitoring methodology, 3) to identify as far as is possible, specific remedial actions that will be required by Fresno Metropolitan Flood Control District in order to achieve the success criteria, and 4) to document the degree of success achieved in establishing wetland vegetation. <p>(d) A monitoring plan shall be developed and implemented by a qualified biologist to monitor results of any on-site wetland restoration and creation for five years. The monitoring plan shall include specific success criteria, frequency and timing of monitoring, and assessment of whether or not maintenance activities are being carried out and how these shall be adjusted if necessary. If monitoring reveals that success criteria are not being met, remedial habitat creation or restoration should be designed and implemented by a</p>			

Table 1 (cont.): City of Fresno General Plan and Development Code Update Mitigation Monitoring and Reporting Program

Mitigation Measure	Timing of Implementation	Responsible Agency/Department	Comments
<p>qualified biologist and subject to five years of monitoring as described above.</p> <p>Or</p> <p>(e) In lieu of developing a mitigation plan that outlines the avoidance, purchase, or creation of wetlands, the FMFCD could purchase mitigation credits through a Corps approved Mitigation Bank.</p>			
<p>MM USS-12:</p> <p>(a) During facility design and prior to initiation of ground disturbing activities in areas that support seasonal wetlands or vernal pools, the FMFCD shall conduct a preliminary rare plant assessment. The assessment will determine the likelihood on whether or not the project site could support rare plants. If it is determined that the project site would not support rare plants then no further action required. However, if the project site has the potential to support rare plants; then a rare plant survey shall be conducted. Rare plant surveys shall be conducted by qualified biologists in accordance with the most current CDFG/USFWS guidelines or protocols and shall be conducted at the time of year when the plants in question are identifiable.</p> <p>(b) Based on the results of the survey, prior to design approval, the FMFCD shall coordinate with CDFG and/or implement a Section 7 consultation with USFWS, shall determine whether the project facility would result in a significant impact to any special status plant species. Evaluation of project impacts shall consider the following:</p> <ul style="list-style-type: none"> • The status of the species in question (e.g., officially listed by the State or Federal Endangered Species Acts). • The relative density and distribution of the on-site occurrence versus typical occurrences of the species in question. 	<p>During facility design and prior to initiation of ground disturbing activities in areas that support seasonal wetlands or vernal pools</p>	<p>Fresno Metropolitan Flood Control District</p>	

Table 1 (cont.): City of Fresno General Plan and Development Code Update Mitigation Monitoring and Reporting Program

Mitigation Measure	Timing of Implementation	Responsible Agency/Department	Comments
<ul style="list-style-type: none"> • The habitat quality of the on-site occurrence relative to historic, current or potential distribution of the population. <p>(c) Prior to design approval, the FMFCD in consultation with the CDFG and/or the USFWS, shall prepare and implement a mitigation plan, in accordance with any applicable State and/or federal statutes or laws, that reduces impacts to a less than significant level.</p>			
<p>MM USS-13:</p> <p>(a) During facility design and prior to initiation of ground disturbing activities in areas that support seasonal wetlands or vernal pools, the FMFCD shall conduct a preliminary survey to determine the presence of listed vernal pool crustaceans.</p> <p>(b) If potential habitat (vernal pools, seasonally inundated areas) or fairy shrimp exist within areas proposed to be disturbed, FMFCD shall complete the first and second phase of fairy shrimp presence or absence surveys. If an absence finding is determined and accepted by the USFWS, then no further mitigation shall be required for fairy shrimp.</p> <p>(c) If fairy shrimp are found to be present within vernal pools or other areas of inundation to be impacted by the implementation of storm drainage facilities, FMFCD shall mitigate impacts on fairy shrimp habitat in accordance with the USFWS requirements of the Programmatic Biological Opinion. This shall include on-site or off-site creation and/or preservation of fairy shrimp habitat at ratios ranging from 3:1 to 5:1 depending on the habitat impacted and the choice of on-site or off-site mitigation. Or mitigation shall be the purchase of mitigation credit through an accredited mitigation bank.</p>	<p>During facility design and prior to initiation of ground disturbing activities in areas that support seasonal wetlands or vernal pools</p>	<p>Fresno Metropolitan Flood Control District</p>	

Table 1 (cont.): City of Fresno General Plan and Development Code Update Mitigation Monitoring and Reporting Program

Mitigation Measure	Timing of Implementation	Responsible Agency/Department	Comments
<p>MM USS-14: (a) During facility design and prior to initiation of construction activities, the FMFCD shall conduct a project-specific survey for all potential Valley Elderberry Longhorn Beetle (VELB) habitats (elderberry shrubs), including a stem count and an assessment of historic or current VELB habitat. (b) The FMFCD shall avoid and protect all potential identified VELB habitat where feasible. (c) Where avoidance is infeasible, develop and implement a VELB mitigation plan in accordance with the most current USFWS mitigation guidelines for unavoidable take of VELB habitat pursuant to either Section 7 or Section 10(a) of the Federal Endangered Species Act. The mitigation plan shall include, but might not be limited to, relocation of elderberry shrubs, planting of elderberry shrubs, and monitoring of relocated and planted elderberry shrubs.</p>	<p>During facility design and prior to initiation of construction activities</p>	<p>Fresno Metropolitan Flood Control District</p>	
<p>MM USS-15: Prior to ground disturbing activities during nesting season (March through July) for a project that supports bird nesting habitat, the FMFCD shall conduct a survey of trees. If nests are found during the survey, a qualified biologist shall assess the nesting activity on the project site. If active nests are located, no construction activities shall be allowed within 250 feet of the nest until the young have fledged. If construction activities are planned during the no n-breeding period (August through February), a nest survey is not necessary.</p>	<p>Prior to ground disturbing activities during nesting season (March through July) for a project that supports bird nesting habitat</p>	<p>Fresno Metropolitan Flood Control District</p>	
<p>MM USS-16: (a) FMFCD shall conduct a pre-construction breeding-season survey (approximately February 1 through August 31) of proposed project sites in suitable habitat (levee and canal berms, open grasslands with suitable burrows) during the same calendar year that construction is planned to begin.</p>	<p>During the breeding season (approximately February 1 through August 31) during the same calendar year that construction is planned to begin</p>	<p>Fresno Metropolitan Flood Control District</p>	

Table 1 (cont.): City of Fresno General Plan and Development Code Update Mitigation Monitoring and Reporting Program

Mitigation Measure	Timing of Implementation	Responsible Agency/Department	Comments
<p>If phased construction procedures are planned for the proposed project, the results of the above survey shall be valid only for the season when it is conducted.</p> <p>(b) During the construction stage, FMFCD shall avoid all burrowing owl nest sites potentially disturbed by project construction during the breeding season while the nest is occupied with adults and/or young. The occupied nest site shall be monitored by a qualified biologist to determine when the nest is no longer used. Avoidance shall include the establishment of a 160-foot diameter non-disturbance buffer zone around the nest site. Disturbance of any nest sites shall only occur outside of the breeding season and when the nests are unoccupied based on monitoring by a qualified biologist. The buffer zone shall be delineated by highly visible temporary construction fencing.</p> <p>Based on approval by CDFG, pre-construction and pre-breeding season exclusion measures may be implemented to preclude burrowing owl occupation of the project site prior to project-related disturbance. Burrowing owls can be passively excluded from potential nest sites in the construction area, either by closing the burrows or placing one-way doors in the burrows according to current CDFG protocol. Burrows shall be examined not more than 30 days before construction to ensure that no owls have recolonized the area of construction. For each burrow destroyed, a new burrow shall be created (by installing artificial burrows at a ratio of 2:1 on protected lands nearby).</p>			
<p>MM USS-17: (a) FMFCD shall not conduct instream activities in the San Joaquin River between October 15 and April 15. If this is not feasible, FMFCD shall consult with the National Marine</p>	<p>During instream activities conducted between October 15 and April 15</p>	<p>Fresno Metropolitan Flood Control District</p>	

Table 1 (cont.): City of Fresno General Plan and Development Code Update Mitigation Monitoring and Reporting Program

Mitigation Measure	Timing of Implementation	Responsible Agency/Department	Comments
<p>Fisheries Service and CDFG on the appropriate measures to be implemented in order to protect listed salmonids in the San Joaquin River.</p> <p>(b) Riparian vegetation on the levee shading the main channel that is removed or damaged as a result of levee raising shall be replaced at a ratio and quantity sufficient to maintain the existing shading of the channel. The location of replacement trees on or within the levees, detention ponds or channels shall be approved by the FMFCD and State Reclamation Board.</p>			
<p><i>Recreation/Trails</i></p> <p>MM USS-18:</p> <p>(a) Prior to final design approval of all elements of the District Services Plan, the FMFCD shall consult with Fresno County, City of Fresno, and City of Clovis to determine if any element would temporarily disrupt or permanently displace adopted existing or planned trails and associated recreational facilities as a result of the proposed District Services Plan. If the proposed project would not temporarily disrupt or permanently displace adopted existing or planned trails, no further mitigation is necessary. If the proposed project would have an effect on the trails and associated facilities, the FMFCD shall implement the following.</p> <p>(b) If short-term disruption of adopted existing or planned trails and associated recreational facilities occur, the FMFCD shall consult and coordinate with Fresno County, City of Fresno, and City of Clovis to temporarily re-route the trails and associated facilities.</p> <p>(c) If permanent displacement of the adopted existing or planned trails and associated recreational facilities occur, the appropriate design modifications to prevent permanent displacement shall be implemented in the final project design or the FMFCD shall replace these facilities.</p>	<p>Prior to final design approval of all elements of the District Services Plan</p>	<p>Fresno Metropolitan Flood Control District</p>	

Table 1 (cont.): City of Fresno General Plan and Development Code Update Mitigation Monitoring and Reporting Program

Mitigation Measure	Timing of Implementation	Responsible Agency/Department	Comments
<p><i>Air Quality</i> MM USS-19: (a) Minimize idling time of construction equipment vehicles to no more than ten minutes, or require that engines be shut off when not in use. (b) Construction shall be curtailed as much as possible when the Air Quality Index (AQI) is above 150. AQI forecasts can be found on the SJVAPCD web site. (c) Off-road trucks should be equipped with on-road engines if possible. (d) Construction equipment should have engines that meet the current off-road engine emission standard (as certified by CARB), or be re-powered with an engine that meets this standard.</p>	<p>During construction activities</p>	<p>Fresno Metropolitan Flood Control District</p>	
<p><i>Adequate Storm Water Drainage Facilities</i> MM USS-20: Prior to exceeding capacity within the existing storm water drainage facilities, the City shall coordinate with the Fresno Metropolitan Flood Control District to evaluate the storm water drainage system and shall not approve additional development that would convey additional storm water to a facility that would experience an exceedance of capacity until the additional capacity is provided.</p>	<p>Prior to exceeding capacity within the existing storm water drainage facilities</p>	<p>Public Works Department and Fresno Metropolitan Flood Control District</p>	
<p>MM USS-21: Prior to exceeding existing water supply capacity, the City shall evaluate the water supply system and shall not approve additional development that demand additional water until additional capacity is provided. By approximately the year 2025, the City shall construct an approximately 25,000 AF/year tertiary recycled water expansion to the Fresno-Clovis Regional Wastewater Reclamation Facility in accordance with the January 2012 City of Fresno Metropolitan Water Resources Management Plan.</p>	<p>Prior to exceeding existing water supply capacity</p>	<p>Public Works Department</p>	

Table 1 (cont.): City of Fresno General Plan and Development Code Update Mitigation Monitoring and Reporting Program

Mitigation Measure	Timing of Implementation	Responsible Agency/Department	Comments
Implementation of Mitigation Measure USS-5 is also required prior to approximately the year 2025.			
MM USS-22: Prior to exceeding landfill capacity, the City shall evaluate additional landfill locations and shall not approve additional development that could contribute solid waste to a landfill that is at capacity until additional capacity is provided.	Prior to exceeding landfill capacity	Public Works Department	