

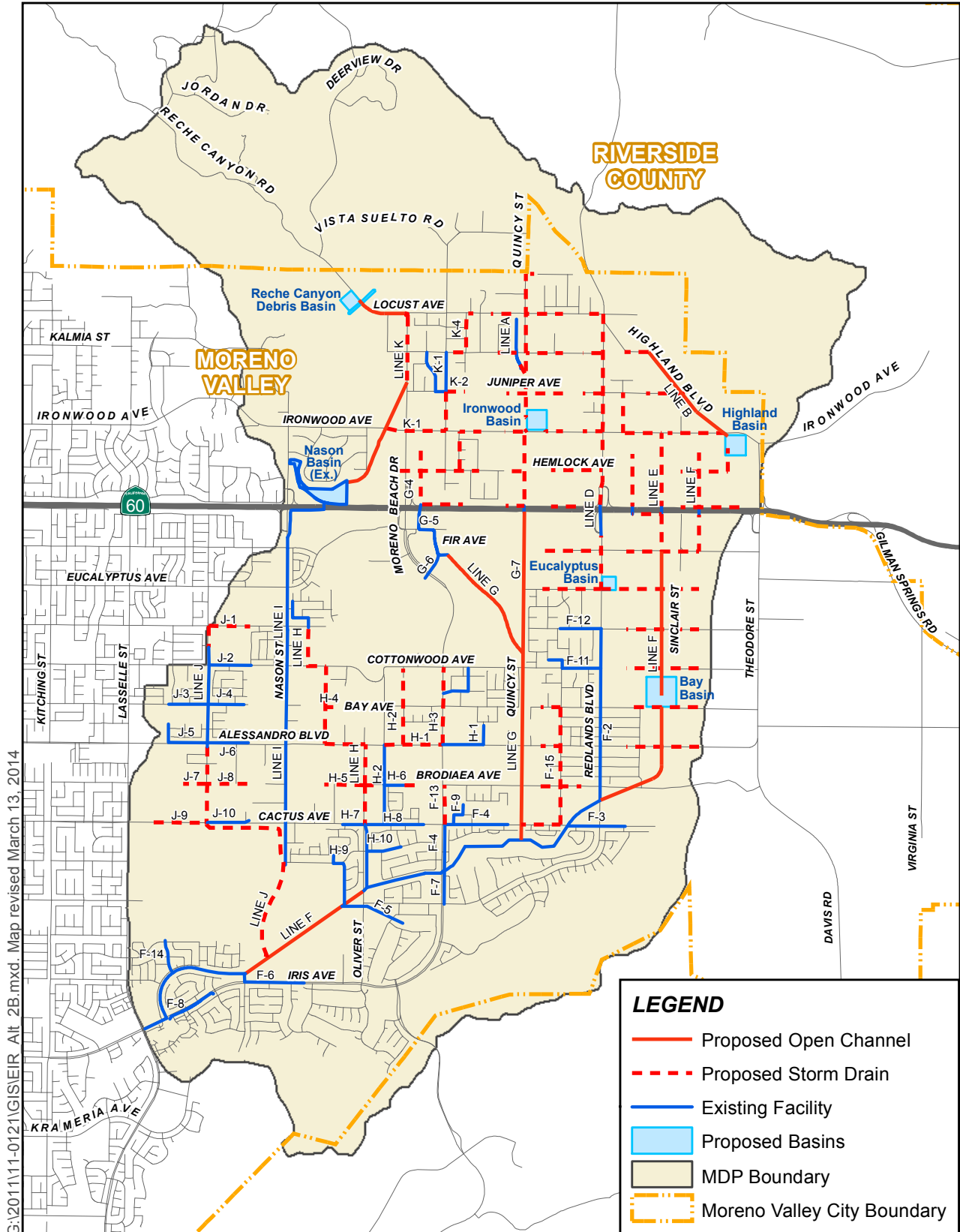
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Source: County of Riverside GIS, 2014;
RCFC&WCD, 2013.

Figure 7-3. Project Alternative 2A
Moreno Master Drainage Plan Revision

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Source: County of Riverside GIS, 2014;
RCFC&WCD, 2013.

Figure 7-4. Project Alternative 2B
Moreno Master Drainage Plan Revision

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7.6.4 Alternative 3

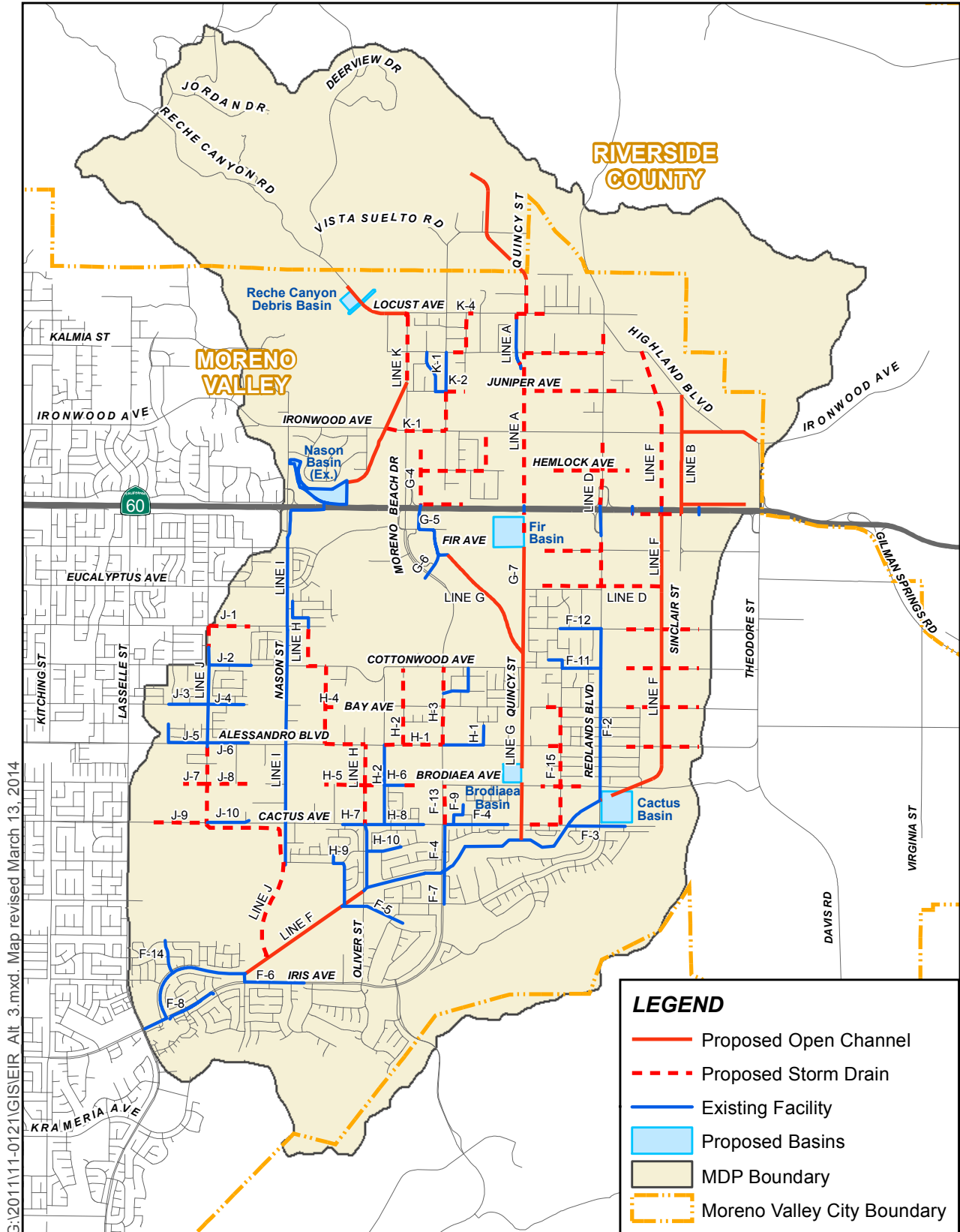
Alternative 3 retains the major alignment for Line A, as proposed in Alternative 2A and Alternative 2B but proposes three detention basins downstream of State Route 60 (see **Figure 7-5 – Alternative 3**). Alternative 3 would require upsizing the existing highway drainage culverts under State Route 60 to convey the 100-year flows to the proposed basins. Alternative 3 proposes a total of four basins (three detention basins and the Reche Canyon Debris Basin) encompassing a total of 78.3 acres with a potential infiltration volume of 88 to 301 acre-feet per day (see **Table 7-D – Infiltration Projections for Alternative 3 Basins**). Alternative 3 proposes Line F, Line G, and Line K as earthen channels instead of the concrete lined channels proposed in Alternative 1.

Table 7-D –Infiltration Projections for Alternative 3 Basins

Basin Name	Basin Footprint (acres) ¹	Portion of Basin in Soil Type "A" ²	Portion of Basin in Soil Type "B" ²	Projected Infiltration (acre-feet/day) ³
Brodiaea Basin	10.5	42%	58%	15 to 85
Fir Basin	28.3	0%	100%	28 to 57
Cactus Basin	29.5	0%	100%	30 to 59
Reche Canyon Debris Basin	10.0	55%	45%	16 to 100
Total All Basins	78.3	N/A	N/A	88 to 301

Notes:
¹ Basin Footprint per MDP Report, Table 4, p. 21.
² Soil Type refers to the hydrological soil group as classified by the Natural Resources Conservation Service. Soil Types "A" and "B" have the potentially high and moderate infiltration rates, respectively. Soil Types "C" and "D" have low and very low infiltration rates, respectively; therefore these Soil Types are not used in this projection.
³ Infiltration rate is determined by multiplying the acreage of each soil type by that soil's infiltration rate. Infiltration rate for Type "A" soil ranges from 2 to 16.7 feet/day. Infiltration rate for Type "B" soil ranges from 1 foot/day to 2 feet/day. Infiltration rates per the Ventura Countywide Stormwater Quality Management Program, *Land Development Guidelines, Appendix C Hydrologic Soil Groups* (Available at <http://www.vcstormwater.org/documents/workproducts/landuseguidelines/appC.pdf>).

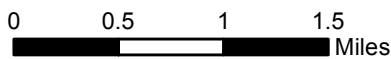
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Source: County of Riverside GIS, 2014; RCFC&WCD, 2013.

Figure 7.5. Project Alternative 3
Moreno Master Drainage Plan Revision



7.7 Evaluation of Alternatives

Because the Project is the implementation of a revision to the 1991 Moreno MDP, the boundary (not the Facility locations) for all alternatives is the same as the proposed Project. Each alternative, except the No Project Alternative, provides the same level of flood protection (in conjunction with the ultimate street improvements) within the Moreno Watershed. All alternatives were developed to reduce flooding, and allow the removal of FEMA mapped Special Flood Hazard Areas within the Moreno Watershed. The overall footprint of the proposed lateral facilities (channels and storm drains) is similar among all alternatives (except for the No Project Alternative) and there is only a 10 acre difference in the basin footprints between the proposed Project and Alternatives 1, 2A, 2B, and 3. All of the alternatives evaluated, except for the No Project Alternative, would be subject to the same mitigation measures as the proposed Project. None of the alternatives evaluated, including the No Project Alternative, will reduce the significant short-term air quality impacts that would occur during construction of the proposed basins and channels.³ Therefore, as shown in **Table 7-E – Comparison of Alternatives Matrix** (on the following page) impacts among the alternatives are similar and there is no single alternative that is clearly environmentally superior to the others.

The matrix approach to comparing the alternatives described in Section 7.6 is used for ease of directly comparing the potential significant adverse effects of the proposed Project with those of the alternatives, per CEQA Guidelines Section 15126.6(d). **Table 7-E** (on the following page) compares the potential environmental impacts of each alternative and ranks the impacts of each alternative as **“Impacts Less than the Project,” “Impacts Same as the Project,”** or **“Impacts Greater than the Project,”** in comparison to the significance determinations that the proposed Project would have with respect to each issue area. The detailed discussion regarding the Projects impacts for each of the environmental issues are included in the following sections of this Draft PEIR:

Environmental Issue	Section
Air Quality and Greenhouse Gas Emissions	5.1
Biological Resources	5.2
Cultural Resources	5.3
Hydrology and Water Quality	5.4
Noise	5.5

³ As discussed in Section 5.1.7, even with mitigation, construction of the Project’s proposed basins and channels will exceed the SCAQMD threshold for NO_x. If basin grading and channel grading of proposed MDP Facilities occurs at the same time, VOC emissions would exceed the SCAQMD threshold even with mitigation.

Table 7-E – Comparison of Alternatives Matrix

Environmental Issue	Proposed Project	No Project Alternative	Alternative 1	Alternative 2A	Alternative 2B	Alternative 3
<p>Air Quality and Greenhouse Gas Emissions (Threshold A) Air Quality Standards</p>	<p>Significant Unavoidable Impact: The proposed Project includes five basins with a combined footprint of approximately 82 acres, in addition to multiple channels, and storm drains.</p> <p>The analysis determined that emissions impacts generated by storm drain installation would be less than significant. Long-term air quality impacts associated with the maintenance of the MDP Facilities would be less than significant.</p> <p>However, impacts from the construction of the channels and basins could exceed the SCAQMD regional daily thresholds for NO_x and possibly VOC (if certain construction activities overlap), even with mitigation measures. Therefore, a Statement of Overriding Considerations (SOC) would be required for short-term air quality impacts related to construction of channel and basin Facilities for NO_x and VOC if certain activities overlap.</p>	<p>Impacts Less Than the Project; Significant Unavoidable Impact: The No Project Alternative is the 1991 Moreno MDP, which includes the 12-acre Sinclair Basin, in addition to open concrete-lined channels and storm drains.</p> <p>Although the No Project Alternative includes fewer acres of basins than the proposed Project; this alternative would still entail construction of channel and basin facilities. Therefore, it is anticipated that construction of the Sinclair Basin and the channels identified in the No Project Alternative would exceed the SCAQMD regional daily thresholds for NO_x and possibly VOC, much like the proposed Project</p> <p>Maintenance for the Facilities in the No Project Alternative would be the same as the proposed Project; thus, no new long-term emissions would occur.</p> <p><i>Note that although impacts are expected to be significant and unavoidable, because the existing MDP proposes fewer Facilities, this No Project Alternative would incrementally generate fewer air quality emissions, which is why it has been identified as having "Impacts Less Than the Project."</i></p>	<p>Impacts Same as the Project; Significant Unavoidable Impact: Alternative 1 includes three basins with a combined footprint of approximately 75 acres, in addition to channels, and storm drains.</p> <p>The basins in Alternative 1 have a slightly smaller footprint (7 fewer acres) than the proposed Project. However, Alternative 1 would still entail construction of channel and basin Facilities. Therefore, it is anticipated that even with mitigation, excavation of this alternative's basins and construction of its channels would exceed the SCAQMD regional daily thresholds for NO_x and possibly VOC, much like the proposed Project.</p> <p>As with the proposed Project, a Statement of Overriding Considerations (SOC) would be required for Alternative 1 for construction of channel and basin Facilities.</p> <p>As with the proposed Project, maintenance for the Facilities identified in Alternative 1 would be the same as the proposed Project; thus, long-term impacts would be less than significant.</p>	<p>Impacts Same as the Project; Significant Unavoidable Impact: Alternative 2A includes six basins with a combined footprint of approximately 72 acres, in addition to channels, and storm drains.</p> <p>Although Alternative 2A includes approximately 10 fewer acres of basins than the proposed Project; Alternative 2A would still entail construction of channel and basin Facilities. Therefore, it is anticipated that even with mitigation, excavation of this alternative's six basins and construction of its channels would exceed the SCAQMD regional daily thresholds for NO_x and possibly VOC, much like the proposed Project.</p> <p>As with the proposed Project, a Statement of Overriding Considerations (SOC) would be required for Alternative 2A for construction of channel and basin Facilities.</p> <p>As with the proposed Project, maintenance for the Facilities identified in Alternative 2A would be the same as the proposed Project; thus, long-term impacts would be less than significant.</p>	<p>Impacts Same as the Project; Significant Unavoidable Impact: Alternative 2B includes five basins with a combined footprint of approximately 75 acres, in addition to channels, and storm drains.</p> <p>Although Alternative 2B includes approximately 7 fewer acres of basins than the proposed Project; Alternative 2B would still entail construction of channel and basin Facilities. Therefore, it is anticipated that even with mitigation, excavation of this alternative's five basins and construction of its channels would exceed the SCAQMD regional daily thresholds for NO_x and possibly VOC, much like the proposed Project.</p> <p>As with the proposed Project, a Statement of Overriding Considerations (SOC) would be required for Alternative 2B for the construction of channel and basin Facilities.</p> <p>As with the proposed Project, maintenance for the Facilities identified in Alternative 2B would be the same as the proposed Project; thus, long-term impacts would be less than significant.</p>	<p>Impacts Same as the Project; Significant Unavoidable Impact: Alternative 3 includes four basins with a combined footprint of approximately 78 acres, in addition to channels, and storm drains.</p> <p>Although Alternative 3 includes approximately 4 fewer acres of basins than the proposed Project; Alternative 3 would still entail construction of channel and basin Facilities. Therefore, it is anticipated that even with mitigation, excavation of this alternative's four basins and construction of its channels will exceed the SCAQMD regional daily thresholds for NO_x and possibly VOC, much like the proposed Project.</p> <p>As with the proposed Project, a Statement of Overriding Considerations (SOC) would be required for Alternative 3 for the construction of channel and basin Facilities.</p> <p>As with the proposed Project, maintenance for the Facilities identified in Alternative 3 would be the same as the proposed Project; thus, long-term impacts would be less than significant.</p>

Table 7-E – Comparison of Alternatives Matrix

Environmental Issue	Proposed Project	No Project Alternative	Alternative 1	Alternative 2A	Alternative 2B	Alternative 3
<p>Air Quality and Greenhouse Gas Emissions (Threshold B) Cumulatively Considerable Contribution to a Criteria Pollutant</p>	<p>Significant Unavoidable Impact: The Project is located in a non-attainment area for NO₂ under state standards, and for ozone, PM-10, and PM-2.5 under both state and federal standards. Even through the proposed Project is in conformance with the AQMP, because the short-term construction of MDP Facilities would result in Project-specific impacts to ozone precursors, the Project’s incremental contribution to criteria pollutant emissions is considered potentially cumulatively considerable. Therefore, a Statement of Overriding Considerations (SOC) would be required for the Project’s cumulatively considerable contribution to air quality impacts related to construction of channel and basin Facilities for NO_x and possibly VOC (both ozone precursors). Note that a cumulative contribution of criteria pollutants does not indicate cumulative GHG impacts.</p>	<p>Impacts Less Than the Project; Significant Unavoidable Impact; The 1991 MDP is in conformance with the AQMP. However, because the short-term construction of Facilities would result in project-specific impacts to ozone precursors, the incremental contribution to criteria pollutant emissions from construction of Facilities identified in the 1991 MDP is considered potentially cumulatively considerable. <i>Note that although impacts are expected to be significant and unavoidable, because the existing MDP proposes fewer Facilities, this No Project Alternative would incrementally generate fewer air quality emissions, which is why it has been identified as having “Impacts Less Than the Project.”</i></p>	<p>Impacts Same as the Project; Significant Unavoidable Impact: Alternative 1 is in conformance with the AQMP. However, as with the proposed Project, because the short-term construction of Facilities would result in project-specific impacts to ozone precursors, the incremental contribution to criteria pollutant emissions from construction of Facilities identified in Alternative 1 is considered potentially cumulatively considerable.</p>	<p>Impacts Same as the Project; Significant Unavoidable Impact: Alternative 2A is in conformance with the AQMP. However, , as with the proposed Project, because the short-term construction of Facilities would result in project-specific impacts to ozone precursors, the incremental contribution to criteria pollutant emissions from construction of Facilities identified in Alternative 2A is considered potentially cumulatively considerable.</p>	<p>Impacts Same as the Project; Significant Unavoidable Impact: Alternative 2B is in conformance with the AQMP. However, as with the proposed Project, because the short-term construction of Facilities would result in project-specific impacts to ozone precursors, the incremental contribution to criteria pollutant emissions from construction of Facilities identified in Alternative 2B is considered potentially cumulatively considerable.</p>	<p>Impacts Same as the Project; Significant Unavoidable Impact: Alternative 3 is in conformance with the AQMP. However, as with the proposed Project, because the short-term construction of Facilities would result in project-specific impacts to ozone precursors, the incremental contribution to criteria pollutant emissions from construction of Facilities identified in Alternative 3 is considered potentially cumulatively considerable.</p>
<p>Air Quality and Greenhouse Gas Emissions (Threshold C) Sensitive Receptors</p>	<p>Significant Unavoidable Impact: The closest sensitive receptors are immediately adjacent to MDP Facilities. No long-term localized impacts would occur as a result of the operation and maintenance of the MDP Facilities due to the lack of new long-term sources of emissions. Short-term emissions during construction are less than significant on a localized level. However, even with mitigation incorporated, NO_x (and VOC if certain construction activities overlap) generated by channel construction and basin excavation would still exceed the SCAQMD threshold. Therefore, a Statement of Overriding Considerations would be required for short-term air quality impacts related to construction of channel and basin Facilities for NO_x and possibly VOC.</p>	<p>Impacts Less Than the Project; Significant Unavoidable Impact; The 1991 MDP proposes Facilities similar to the proposed Project and immediately adjacent to sensitive receptors. No long-term localized impacts would occur as a result of the operation and maintenance of the MDP Facilities. Like the proposed Project, short-term emissions would be less than significant on a localized level. However, even with mitigation incorporated, NO_x emissions generated by channel construction and basin excavation would still exceed the SCAQMD threshold. <i>Note that although impacts are expected to be significant and</i></p>	<p>Impacts Same as the Project; Significant Unavoidable Impact: As with the proposed Project, Alternative 1 proposes Facilities similar to the proposed Project and immediately adjacent to sensitive receptors. No long-term localized impacts would occur as a result of the operation and maintenance of the MDP Facilities. Like the proposed Project, short-term emissions would be less than significant on a localized level. However, even with mitigation incorporated, NO_x emissions generated by channel construction and basin excavation would still exceed the SCAQMD threshold.</p>	<p>Impacts Same as the Project; Significant Unavoidable Impact: As with the proposed Project, Alternative 2A proposes Facilities similar to the proposed Project and immediately adjacent to sensitive receptors. No long-term localized impacts would occur as a result of the operation and maintenance of the MDP Facilities. Like the proposed Project, short-term emissions would be less than significant on a localized level. However, even with mitigation incorporated, NO_x emissions generated by channel construction and basin excavation would still exceed the SCAQMD threshold.</p>	<p>Impacts Same as the Project; Significant Unavoidable Impact: As with the proposed Project, Alternative 2B proposes Facilities similar to the proposed Project and immediately adjacent to sensitive receptors. No long-term localized impacts would occur as a result of the operation and maintenance of the MDP Facilities. Like the proposed Project, short-term emissions would be less than significant on a localized level. However, even with mitigation incorporated, NO_x emissions generated by channel construction and basin excavation would still exceed the SCAQMD threshold.</p>	<p>Impacts Same as the Project; Significant Unavoidable Impact: As with the proposed Project, Alternative 3 proposes Facilities similar to the proposed Project and immediately adjacent to sensitive receptors. No long-term localized impacts would occur as a result of the operation and maintenance of the MDP Facilities. Like the proposed Project, short-term emissions would be less than significant on a localized level. However, even with mitigation incorporated, NO_x, VOC and PM-10 emissions generated by channel construction and basin excavation would still exceed the SCAQMD threshold.</p>

Table 7-E – Comparison of Alternatives Matrix

Environmental Issue	Proposed Project	No Project Alternative	Alternative 1	Alternative 2A	Alternative 2B	Alternative 3
		<i>unavoidable, because the existing MDP proposes fewer Facilities, this No Project Alternative would incrementally generate fewer air quality emissions, which is why it has been identified as having "Impacts Less Than the Project."</i>				
Air Quality and Greenhouse Gas Emissions (Threshold D) Greenhouse Gas Emissions	Less than Significant Impacts: Project-related GHG emissions would result from fuel usage during Project construction and operation (Facility maintenance activities). The total GHG emissions from Project construction is below the lowest SCAQMD recommended screening level of 3,000 MTCO ₂ E/yr (for commercial projects). The projected emissions from construction of the MDP, and negligible operational emissions from infrequent maintenance vehicles will not result in additional sources of emissions when compared to existing maintenance routines. Thus, implementation of the proposed Moreno MDP will not generate a significant amount of GHG.	Impacts Same as the Project; Less than Significant Impacts: Construction of the Facilities in the 1991 Moreno MDP would result in GHG emissions similar to the proposed Project. Operational emissions from infrequent maintenance vehicles will remain unchanged.	Impacts Same as the Project; Less than Significant Impacts: Construction of the Facilities identified in Alternative 1 would result in similar GHG emissions compared to the proposed Project. Negligible operational emissions from infrequent maintenance vehicles will not result in additional sources of emissions when compared to existing maintenance routines.	Impacts Same as the Project; Less than Significant Impacts: Construction of the Facilities identified in Alternative 2A would result in similar GHG emissions compared to the proposed Project. Negligible operational emissions from infrequent maintenance vehicles will not result in additional sources of emissions when compared to existing maintenance routines.	Impacts Same as the Project; Less than Significant Impacts: Construction of the Facilities identified in Alternative 2B would result in similar GHG emissions compared to the proposed Project. Negligible operational emissions from infrequent maintenance vehicles will not result in additional sources of emissions when compared to existing maintenance routines.	Impacts Same as the Project; Less than Significant Impacts: Construction of the Facilities identified in Alternative 3 would result in similar GHG emissions compared to the proposed Project. Negligible operational emissions from infrequent maintenance vehicles will not result in additional sources of emissions when compared to existing maintenance routines.
Biological Resources (Threshold A) Candidate, Sensitive, or Special-Status Plant Species	Less than Significant Impacts with Mitigation: Biological resources were evaluated at a program level in the Draft PEIR. Special status species, such as the burrowing owl, least Bell's vireo, and fairy shrimp, Los Angeles pocket mouse, Stephen's kangaroo rat, and raptors have the potential to occur within the boundaries of the Moreno MDP Watershed. The proposed Project includes five basins with a combined footprint of approximately 82 acres, in addition to channels, and storm drains Through compliance with the provisions of the MSHCP and implementation of mitigation measures MM BIO 1 through MM BIO 9 that require focused surveys, replacement of lost habitat, and seasonal avoidance of vegetation removal or nesting bird surveys, impacts would be reduced to less than significant.	Impacts Less than the Project; Less than Significant Impacts: The No Project Alternative is the 1991 Moreno MDP, which includes the 12-acre Sinclair Basin, in addition to open concrete-lined channels and storm drains. As with the proposed Project, Facilities proposed by this alternative are located in areas that have the potential to support special status species. Because this alternative is anticipated to have an approximately 70 acre smaller footprint than the proposed Project it would impact less habitat. The District and Moreno Valley are Permittees under the MSHCP; therefore, construction of any	Impacts Same as the Project; Less than Significant Impacts with Mitigation: As with the proposed Project, Facilities proposed by Alternative 1 are located in areas that have the potential to support special status species. Because the footprint for Alternative 1 is only approximately 7 acres smaller than the proposed Project, it would not affect significantly less habitat than the proposed Project would comply with the provisions of the MSHCP and implement mitigation measures MM BIO 1 through MM BIO 9 .	Impacts Same as the Project; Less than Significant Impacts with Mitigation: As with the proposed Project, Facilities proposed by Alternative 2A are located in areas that have to potential to support special status species. Because the footprint for Alternative 2A is only approximately 10 acres smaller than the proposed Project, it would not affect significantly less habitat than the proposed Project would comply with the provisions of the MSHCP and implement mitigation measures MM BIO 1 through MM BIO 9 .	Impacts Same as the Project; Less than Significant Impacts with Mitigation: As with the proposed Project, Facilities proposed by Alternative 2B are located in areas that have to potential to support special status species. Because the footprint for Alternative 2B is only approximately 7 acres smaller than the proposed Project, it would not affect significantly less habitat than the propose Project and comply with the provisions of the MSHCP and implement mitigation measures MM BIO 1 through MM BIO 9 .	Impacts Same as the Project; Less than Significant Impacts with Mitigation: As with the Project, Facilities proposed by Alternative 3 are located in areas that have to potential to support special status species. Because the footprint for Alternative 3 is only approximately 4 acres smaller than the proposed Project, it would not affect significantly less habitat than the proposed Project and would comply with the provisions of the MSHCP and implement mitigation measures MM BIO 1 through MM BIO 9 .

Table 7-E – Comparison of Alternatives Matrix

Environmental Issue	Proposed Project	No Project Alternative	Alternative 1	Alternative 2A	Alternative 2B	Alternative 3
		Facility shall be in compliance with the MSHCP, which would reduce potential impacts to less than significant.				
Biological Resources (Threshold B) Riparian Habitat portion	Less than Significant Impacts with Mitigation: Riparian habitat is present within the Moreno MDP Watershed. Per the MSHCP, identification of riparian/riverine habitats and avoidance of these habitats are required where possible. If riparian/riverine features cannot be avoided, then approval of a DBESP that identifies appropriate mitigation will be required. Thus, through compliance with the provisions of the MSHCP and implementation of mitigation measures MM BIO 4 and MM BIO 8 , impacts would be less than significant.	Impacts Less than the Project Less than Significant Impacts: Because the No Project Alternative is anticipated to have an approximately 70 acre smaller footprint than the Project, it may impact less riparian/riverine habitat. Because the District and Moreno Valley are MSHCP Permitted construction of Facilities identified in the 1991 Moreno MDP must comply with the MSHCP and if avoidance is not possible, then a DBESP must be prepared and approved. Through compliance with the MSHCP, impacts would be less than significant.	Impacts Same as the Project Less than Significant Impacts with Mitigation: Although Alternative 1 is anticipated to have a slightly smaller (approximately 7 acre) footprint than the Project, certain Facilities may impact riparian/riverine habitat. As with the Project, this alternative would comply with the MSHCP and implement mitigation measures MM BIO 4 and MM BIO 8 .	Impacts Same as the Project Less than Significant Impacts with Mitigation: Although Alternative 2A is anticipated to have a slightly smaller (approximately 10 acres) footprint than the Project, certain Facilities may impact riparian/riverine habitat. As with the Project, this alternative would comply with the MSHCP and implement of mitigation measures MM BIO 4 and MM BIO 8 .	Impacts Same as the Project Less than Significant Impacts with Mitigation: Although Alternative 2B is anticipated to have a slightly smaller (approximately 7 acres) footprint than the Project, certain Facilities may impact riparian/riverine habitat. As with the Project, this alternative would comply with the MSHCP and implement mitigation measures MM BIO 4 and MM BIO 8 .	Impacts Same as the Project Less than Significant Impacts with Mitigation: Alternative 3 is anticipated to have essentially the same-sized footprint as the Project and certain Facilities may impact riparian/riverine habitat. As with the Project, this alternative would comply with the MSHCP and implement mitigation measures MM BIO 4 and MM BIO 8 .
Biological Resources (Threshold B) Jurisdictional Water Features portion	Less than Significant Impacts with Mitigation: Potentially jurisdictional areas are present within the boundaries of the Moreno MDP Watershed. Potentially jurisdictional areas are in proximity to various components of the MDP Revision. However, any impacts would be mitigated with implementation of mitigation measure MM BIO 8 , and compliance with the MSHCP and compliance with any related permits from the Resource Agencies. Therefore, any potential impacts would be mitigated to less than significant.	Impacts Less than the Project Less than Significant Impacts: Potentially jurisdictional areas are in proximity to various components of the No Project Alternative. However, because there is only one basin with this alternative, the impacts would be slightly less than the proposed Project, with five basins to mitigate. Nonetheless, through compliance with the MSHCP, and compliance with any related permits from the Resource Agencies, any potential impacts would be less than significant.	Impacts Same as the Project Less than Significant Impacts with Mitigation: As with the Proposed Project, potentially jurisdictional areas are in proximity to various components of Alternative 1. However, any impacts would be mitigated with implementation of mitigation measure MM BIO 8 , and compliance with the MSHCP and compliance with any related permits from the Resource Agencies. Therefore, any potential impacts would be mitigated to less than significant.	Impacts Same as the Project Less than Significant Impacts with Mitigation: As with the Proposed Project, potentially jurisdictional areas are in proximity to various components of Alternative 2A. However, any impacts would be mitigated with implementation of mitigation measure MM BIO 8 , and compliance with the MSHCP and compliance with any related permits from the Resource Agencies. Therefore, any potential impacts would be mitigated to less than significant.	Impacts Same as the Project Less than Significant Impacts with Mitigation: As with the Proposed Project, potentially jurisdictional areas are in proximity to various components of Alternative 2B. However, any impacts would be mitigated with implementation of mitigation measure MM BIO 8 , and compliance with the MSHCP and compliance with any related permits from the Resource Agencies. Therefore, any potential impacts would be mitigated to less than significant.	Impacts Same as the Project Less than Significant Impacts with Mitigation: As with the Proposed Project, jurisdictional areas are in proximity to various components of Alternative 3. However, any impacts would be mitigated with implementation of mitigation measure MM BIO 8 , and compliance with the MSHCP and compliance with any related permits from the Resource Agencies. Therefore, any potential impacts would be mitigated to less than significant.

Table 7-E – Comparison of Alternatives Matrix

Environmental Issue	Proposed Project	No Project Alternative	Alternative 1	Alternative 2A	Alternative 2B	Alternative 3
<p>Biological Resources (Threshold C) Native Resident or Migratory Fish or Wildlife Species</p>	<p>Less than Significant Impacts with Mitigation: According to the MSHCP, there are no special linkage corridors within the Moreno MDP Watershed and no recognized wildlife nursery sites. The MDP Watershed contains trees, shrubs, and herbaceous vegetation with the potential to support nesting birds. Construction of MDP Facilities will entail removing vegetation suitable for nesting migratory birds. The MBTA and California Fish and Game Code prohibit impacts to nesting bird; however, with implementation of mitigation measure MM BIO 9, potential impacts to migratory birds would be less than significant.</p>	<p>Impacts Less than the Project; Less than Significant Impacts: Construction of Facilities identified in the No Project Alternative will entail removal of vegetation suitable for nesting migratory birds. However, because the combined Facility footprint for this alternative is approximately 70 acres smaller than the proposed Project, it is assumed that substantially less vegetation removal would be required.</p>	<p>Impacts Same as the Project; Less than Significant Impacts with Mitigation: As with the proposed Project, construction of Facilities in Alternative 1 will entail removal of vegetation suitable for nesting migratory birds. Because the footprint for this alternative is slightly smaller than the proposed Project, slightly less vegetation removal may be required. As with the proposed Project, Alternative 1 would implement mitigation measure MM BIO 9.</p>	<p>Impacts Same as the Project; Less than Significant Impacts with Mitigation: As with the proposed Project, construction of Facilities in Alternative 2A will entail removal of vegetation suitable for nesting migratory birds. Because the footprint for this alternative is slightly smaller than the proposed Project, slightly less vegetation removal may be required. As with the proposed Project, Alternative 2A would implement mitigation measure MM BIO 9.</p>	<p>Impacts Same as the Project; Less than Significant Impacts with Mitigation: As with the proposed Project, construction of Facilities in Alternative 2B will entail removal of vegetation suitable for nesting migratory birds. Because the footprint for this alternative is slightly smaller than the proposed Project, slightly less vegetation removal may be required. As with the proposed Project, Alternative 2B would implement mitigation measure MM BIO 9.</p>	<p>Impacts Same as the Project; Less than Significant Impacts with Mitigation: As with the proposed Project, construction of Facilities in Alternative 3 will entail removal of vegetation suitable for nesting migratory birds. Because the footprint for this alternative is essentially the same size as the proposed Project, it is anticipated a similar amount of vegetation removal may be required. As with the Project, Alternative 3 would implement mitigation measure MM BIO 9.</p>
<p>Biological Resources (Threshold D) Conflict with local policies or ordinances protecting biological resources</p>	<p>Less than Significant Impacts: The Project will meet the goals and policies of the District, Moreno Valley, and Riverside County through compliance with the MSHCP.</p>	<p>Impacts Same as the Project; Less than Significant Impacts: The No Project Alternative will meet the goals and policies of the District, Moreno Valley, and Riverside County through compliance with the MSHCP.</p>	<p>Impacts Same as the Project; Less than Significant Impacts: Alternative 1 will meet the goals and policies of the District, Moreno Valley, and Riverside County through compliance with the MSHCP.</p>	<p>Impacts Same as the Project; Less than Significant Impacts: Alternative 2A will meet the goals and policies of the District, Moreno Valley, and Riverside County through compliance with the MSHCP.</p>	<p>Impacts Same as the Project; Less than Significant Impacts: Alternative 2B will meet the goals and policies of the District, Moreno Valley, and Riverside County through compliance with the MSHCP.</p>	<p>Impacts Same as the Project; Less than Significant Impacts: Alternative 3 will meet the goals and policies of the District, Moreno Valley, and Riverside County through compliance with the MSHCP.</p>
<p>Biological Resources (Threshold E) Conflict with the Provisions of an adopted HCP.</p>	<p>Less than Significant Impacts with Mitigation: The Moreno Watershed is located within the boundaries of the MSHCP; however none of the MDP Facilities are located within the MSHCP Criteria Areas and none of the potential footprints of the MDP Facilities are targeted for conservation (i.e., within a Criteria Cell). In addition to Criteria Cell requirements, the MSHCP requires consistency with Sections 6.1.2 (Protection of Species within Riparian/Riverine Areas and Vernal Pools), 6.1.3 (Protection of Narrow Endemic Plant Species), 6.1.4 (Urban and Wildlands Interface), 6.3.2 (Additional Survey Needs and Procedures), Appendix C (Standard Best Management Practices), and 7.5.3</p>	<p>Impacts Same as the Project; Less than Significant Impacts: None of the Facilities for the No Project Alternative are within a Criteria Cell. As with the Project, all alternatives are required to be consistent with MSHCP Sections 6.1.2, 6.1.3, 6.1.4, 6.3.2, 7.5.3, and Appendix C. The No Project Alternative would be subject to implementation of similar mitigation as the Project, which would be identified at the time individual Facilities are proposed.</p>	<p>Impacts Same as the Project; Less than Significant Impacts with Mitigation: None of the Facilities for Alternative 1 are within a Criteria Cell. As with the Project, all alternatives are required to be consistent with MSHCP Sections 6.1.2, 6.1.3, 6.1.4, 6.3.2, 7.5.3, and Appendix C. With implementation of mitigation measures MM BIO 1 through MM BIO 9, this alternative would comply with the provisions of the MSHCP.</p>	<p>Impacts Same as the Project; Less Than Significant Impacts with Mitigation: None of the Facilities for Alternative 2A are within a Criteria Cell. As with the Project, all alternatives are required to be consistent with MSHCP Sections 6.1.2, 6.1.3, 6.1.4, 6.3.2, 7.5.3, and Appendix C. With implementation of mitigation measures MM BIO 1 through MM BIO 9, this alternative would comply with the provisions of the MSHCP.</p>	<p>Impacts Same as the Project; Less than Significant Impacts with Mitigation: None of the Facilities for Alternative 2B are within a Criteria Cell. As with the Project, all alternatives are required to be consistent with MSHCP Sections 6.1.2, 6.1.3, 6.1.4, 6.3.2, 7.5.3, and Appendix C. With implementation of mitigation measures MM BIO 1 through MM BIO 9, this alternative would comply with the provisions of the MSHCP.</p>	<p>Impacts Same as the Project; Less than Significant Impacts with Mitigation: None of the Facilities for Alternative 3 are within a Criteria Cell. As with the Project, all alternatives are required to be consistent with MSHCP Sections 6.1.2, 6.1.3, 6.1.4, 6.3.2, 7.5.3, and Appendix C. With implementation of mitigation measures MM BIO 1 through MM BIO 9, this alternative would comply with the provisions of the MSHCP.</p>

Table 7-E – Comparison of Alternatives Matrix

Environmental Issue	Proposed Project	No Project Alternative	Alternative 1	Alternative 2A	Alternative 2B	Alternative 3
	(Construction Guidelines). With implementation of mitigation measures MM BIO 1 through MM BIO 9 , the Project would comply with the provisions of the MSHCP.					
Cultural Resources (Threshold A) Historic Resources	Less than Significant Impacts with Mitigation: No known historic resources are located in the immediate vicinity of the proposed MDP Facilities. In the event the actual location and type of any MDP Facility changes during the final design process from what was evaluated in the <i>Phase I Archaeological Assessment, Moreno Master Drainage Plan Revision, City of Moreno Valley, Riverside County, California</i> (CRM TECH, January 31, 2012), mitigation measure MM CR 1 would be implemented.	Impacts Same as the Project; Less than Significant Impacts: No known historic resources are located in the immediate vicinity of the Facilities identified in the 1991 Moreno MDP. As with the proposed Project, the location of the Facilities in the No Project Alternative is conceptual.	Impacts Same as the Project; Less than Significant Impacts with Mitigation: No known historic resources are located in the immediate vicinity of Facilities identified in Alternative 1, which is conceptual at this time. If any Facility is constructed that was not evaluated in the <i>Phase I Archaeological Assessment, Moreno Master Drainage Plan Revision, City of Moreno Valley, Riverside County, California</i> (CRM TECH, January 31, 2012) mitigation measure MM CR 1 would be implemented.	Impacts Same as the Project; Less than Significant Impacts with Mitigation: No known historic resources are located in the immediate vicinity of the Facilities identified in Alternative 2A, which is conceptual at this time. If any Facility is constructed that was not evaluated in the <i>Phase I Archaeological Assessment, Moreno Master Drainage Plan Revision, City of Moreno Valley, Riverside County, California</i> (CRM TECH, January 31, 2012) mitigation measure MM CR 1 would be implemented.	Impacts Same as the Project; Less than Significant Impacts with Mitigation: No known historic resources are located in the immediate vicinity of the Facilities identified in Alternative 2B, which is conceptual at this time. If any Facility is constructed that was not evaluated in the <i>Phase I Archaeological Assessment, Moreno Master Drainage Plan Revision, City of Moreno Valley, Riverside County, California</i> (CRM TECH, January 31, 2012) mitigation measure MM CR 1 would be implemented.	Impacts Same as the Project; Less than Significant Impacts with Mitigation: No known historic resources are located in the immediate vicinity of the Facilities identified in Alternative 3, which is conceptual at this time. If any Facility is constructed that was not evaluated in the <i>Phase I Archaeological Assessment, Moreno Master Drainage Plan Revision, City of Moreno Valley, Riverside County, California</i> (CRM TECH, January 31, 2012) mitigation measure MM CR 1 would be implemented.
Cultural Resources (Threshold B) Archaeological Resources	Less-than-Significant Impacts with Mitigation: Due to extensive ground disturbance in proximity to the proposed MDP Facilities, no impacts to archaeological resources are anticipated. In the event of an accidental discovery, mitigation measure MM CR 2 would be implemented. Additionally, because the proposed location of the MDP Facilities is conceptual, if the actual location and type of any MDP Facility changes during the final design process from what was evaluated in the <i>Phase I Archaeological Assessment, Moreno Master Drainage Plan Revision, City of Moreno Valley, Riverside County, California</i> (CRM TECH, January 31, 2012), mitigation measure MM CR 1 would be implemented.	Impacts Same as the Project; Less than Significant Impacts: Due to the extensive ground disturbance in proximity to the Facilities identified in the No Project Alternative, no impacts to archaeological resources are anticipated. However, as with the proposed Project, the location of the Facilities in the No Project Alternative is conceptual.	Impacts Same as the Project; Less than Significant Impacts with Mitigation: Due to the extensive ground disturbance in proximity to the Facilities identified in Alternative 1, no impacts to archaeological resources are anticipated. However, as with the proposed Project, in the event of an accidental discovery, mitigation measure MM CR 2 would be implemented. As with the Project, if the actual location and type of any proposed Facility changes from what was evaluated in the <i>Phase I Archaeological Assessment, Moreno Master Drainage Plan Revision, City of Moreno Valley, Riverside County, California</i> (CRM TECH, January 31, 2012), mitigation measure MM CR 1 would be implemented.	Impacts Same as the Project; Less than Significant Impacts with Mitigation: Due to the extensive ground disturbance in proximity to the Facilities identified in Alternative 2A, no impacts to archaeological resources are anticipated. However, as with the proposed Project, in the event of an accidental discovery, mitigation measure MM CR 2 would be implemented. As with the Project, if the actual location and type of any proposed Facility changes from what was evaluated in the <i>Phase I Archaeological Assessment, Moreno Master Drainage Plan Revision, City of Moreno Valley, Riverside County, California</i> (CRM TECH, January 31, 2012), mitigation measure MM CR 1 would be implemented.	Impacts Same as the Project; Less than Significant Impacts with Mitigation: Due to the extensive ground disturbance in proximity to the Facilities identified in Alternative 2B, no impacts to archaeological resources are anticipated. However, as with the proposed Project, in the event of an accidental discovery, mitigation measure MM CR 2 would be implemented. As with the Project, if the actual location and type of any proposed Facility changes from what was evaluated in the <i>Phase I Archaeological Assessment, Moreno Master Drainage Plan Revision, City of Moreno Valley, Riverside County, California</i> (CRM TECH, January 31, 2012), mitigation measure MM CR 1 would be implemented.	Impacts Same as the Project; Less than Significant Impacts with Mitigation: Due to the extensive ground disturbance in proximity to the Facilities identified in Alternative 3, no impacts to archaeological resources are anticipated. However, as with the proposed Project, in the event of an accidental discovery, mitigation measure MM CR 2 would be implemented. As with the Project if the actual location and type of any proposed Facility changes during from what was evaluated in the <i>Phase I Archaeological Assessment, Moreno Master Drainage Plan Revision, City of Moreno Valley, Riverside County, California</i> (CRM TECH, January 31, 2012), mitigation measure MM CR 1 would be implemented.

Table 7-E – Comparison of Alternatives Matrix

Environmental Issue	Proposed Project	No Project Alternative	Alternative 1	Alternative 2A	Alternative 2B	Alternative 3
Cultural Resources (Threshold C) Paleontological Resources	Less than Significant Impacts with Mitigation: No unique geologic feature is known to exist and no fossils have been documented within or adjacent to the proposed MDP Facilities. The Moreno MDP Watershed is underlain by deposits that could potentially have a high sensitivity for paleontological resources. Ground-disturbing activities resulting from construction of the proposed Project could damage or destroy previously undocumented unique fossils within the footprint of proposed MDP Facilities. Mitigation measures MM CR 4 through MM CR 7 , outline specific measures that will be taken if certain soil types or any paleontological specimens are unearthed during construction activities.	Impacts Same as the Project; Less than Significant Impacts: As with the Project, no unique geologic feature is known to exist and no fossils have been documented within or adjacent to the Facilities proposed by the No Project Alternative. Although the No Project Alternative has a substantially smaller footprint than the proposed Project, ground-disturbing activities resulting from construction of this alternative could damage or destroy previously undocumented unique fossils.	Impacts Same as the Project; Less than Significant Impacts with Mitigation: As with the Project, construction of Alternative 1 Facilities could damage or destroy previously undocumented unique fossils; however this alternative would implement mitigation measures MM CR 4 through MM CR 7 .	Impacts Same as the Project; Less than Significant Impacts with Mitigation: As with the Project, construction of Alternative 2A Facilities could damage or destroy previously undocumented unique fossils; however, this alternative would implement mitigation measures MM CR 4 through MM CR 7 .	Impacts Same as the Project; Less than Significant Impacts with Mitigation: As with the Project, construction of Alternative 2B Facilities could damage or destroy previously undocumented unique fossils; however, this alternative would implement mitigation measures MM CR 4 through MM CR 7 .	Impacts Same as the Project; Less than Significant Impacts with Mitigation: As with the Project, construction of Alternative 3 Facilities could damage or destroy previously undocumented unique fossils; however, this alternative would implement mitigation measures MM CR 4 through MM CR 7 .
Hydrology and Water Quality (Threshold A) Violate any water quality standards or waste discharge requirements	Less than Significant Impacts with Mitigation: Construction of the proposed MDP Facilities may result in the discharge of sediment and other construction by-products. Existing NPDES permitting requires that SWPPPs identify BMPs to control erosion and discharge of polluted runoff during construction. For any Facility for which a SWPPP is not required, mitigation measure MM HYD 1 requires an erosion control plan be prepared that identifies appropriate BMPs to be implemented during construction. The Project proposes three detention basins with a combined footprint of approximately 82 acres. Detention basins have a medium efficiency for the removal of sediment/turbidity, nutrients, and metals, which are impairments for one or more of the Project's receiving water bodies.	Impacts Greater than the Project; Less than Significant Impacts: Construction of the No Project Alternative's Facilities has the same potential for construction impacts as the Project and is subject to the same NPDES permit requirements. This alternative would not implement mitigation measure MM HYD-1 so an erosion control plan would not be prepared for any Facility for which a SWPPP is not required. The No Project Alternative includes one, approximately 12-acre detention basin, which is 70 acres smaller than the Project's basins and would not provide as much potential for the removal of sediment/turbidity, nutrients, and metals as the Project.	Impacts Same as the Project; Less than Significant Impacts with Mitigation: Construction of the Alternative 1 Facilities has the same potential for construction impacts as the proposed Project; is subject to the same NPDES permit requirements; and would implement mitigation measure MM HYD 1 . Alternative 1 proposes two detention basins with a combined footprint of approximately 75 acres, which is slightly smaller than the proposed Project's basins and is anticipated to provide a similar potential for the removal of sediment/turbidity, nutrients, and metals as the proposed Project.	Impacts Same as the Project; Less than Significant Impacts with Mitigation: Construction of the Alternative 2A Facilities has the same potential for construction impacts as the proposed Project; is subject to the same NPDES permit requirements; and would implement mitigation measure MM HYD 1 . Alternative 2A proposes five detention basins with a combined footprint of approximately 72 acres, which is slightly smaller than the proposed Project's basins and is anticipated to provide a similar potential for the removal of sediment/turbidity, nutrients, and metals as the proposed Project.	Impacts Same as the Project; Less than Significant Impacts with Mitigation: Construction of the Alternative 2B Facilities has the same potential for construction impacts as the proposed Project; is subject to the same NPDES permit requirements; and would implement mitigation measure MM HYD 1 . Alternative 2B proposes four detention basins with a combined footprint of approximately 75 acres, which is slightly smaller than the Project's basins and is anticipated to provide a similar potential for the removal of sediment/turbidity, nutrients, metals as the proposed Project.	Impacts Same as the Project; Less than Significant Impacts with Mitigation: Construction of the Alternative 3 Facilities has the same potential for construction impacts as the proposed Project; is subject to the same NPDES permit requirements; and would implement mitigation measure MM HYD 1 . Alternative 3 proposes three detention basins with a combined footprint of approximately 78 acres, which is anticipated to provide a similar potential for the removal of sediment/turbidity, nutrients, and metals as the proposed Project.
Hydrology and Water Quality (Threshold B) Substantial discharges of	Less than Significant Impacts with Mitigation: The proposed Project is designed to collect and convey stormwater runoff from within the Moreno MDP Watershed. This runoff is expected to contain the following pollutants:	Impacts Greater than the Project; Less than Significant Impacts: The pollutants would be the same as for the proposed Project and would be minimized through implementation	Impacts Greater than the Project; Less than Significant Impacts with Mitigation: The pollutants would be the same for Alternative 1 as for the proposed Project and would be	Impacts Greater than the Project; Less than Significant Impacts with Mitigation: The pollutants would be the same for Alternative 2A as for the proposed Project and would	Impacts Greater than the Project; Less than Significant Impacts with Mitigation: The pollutants would be the same for Alternative 2B as for the proposed Project and would	Impacts Greater than the Project; Less than Significant Impacts with Mitigation: The pollutants would be the same for Alternative 3 as for the proposed Project and would be

Table 7-E – Comparison of Alternatives Matrix

Environmental Issue	Proposed Project	No Project Alternative	Alternative 1	Alternative 2A	Alternative 2B	Alternative 3
typical storm water pollutants or substantial changes to surface water quality	Nutrients, bacteria and viruses (pathogens), organic compounds, oxygen demanding substances, oil and grease, sediment, pesticides, trash and debris, and metals. The discharge of pollutants would be minimized through implementation of the NPDES MS4 permits, which requires preparation of a SWPPP that identifies appropriate BMPs and implementation of mitigation measure MM HYD 1 , which requires an erosions control plan when a SWPPP is not required.. The proposed Project includes two debris basins and three detention basins with a combined footprint of 82 acres that may have a beneficial impact on downstream water quality, particularly with regard to the removal of sediment/turbidity.	of the NPDES MS4 permits. Although Facilities for which a SWPPP is not required will not have an erosions control plan. Because the No Project Alternative does not include any debris basins and only one detention basin; it may not have as much of a beneficial impact on downstream water quality as the Project, particularly with regard to the removal of sediments/turbidity.	minimized through implementation of the NPDES MS4 permits and mitigation measure MM HYD 1 . Alternative 1 proposes one debris basin and two detention basins with a combined footprint of 75 acres. Because Alternative 1 includes only one debris basin, it may not have as much of a beneficial impact on downstream water quality with regard to the removal of sediments/turbidity as the proposed Project.	be minimized through implementation of the NPDES MS4 permits and mitigation measure MM HYD 1 . Alternative 2A proposes one debris basin and five detention basins with a combined footprint of 72 acres. Because Alternative 2A includes only one debris basin, it may not have as much of a beneficial impact on downstream water quality with regard to the removal of sediments/turbidity as the proposed Project.	be minimized through implementation of the NPDES MS4 permits and mitigation measure MM HYD 1 . Alternative 2B proposes one debris basin and four detention basins with a combined footprint of 75 acres. Because Alternative 2B includes only one debris basin, it may not have as much of a beneficial impact on downstream water quality with regard to the removal of sediments/turbidity as the proposed Project.	minimized through implementation of the NPDES MS4 permits and mitigation measure MM HYD 1 . Alternative 3 proposes one debris basin and three detention basins with a combined footprint of 78 acres. Because Alternative 3 includes only one debris basin, it may not have as much of a beneficial impact on downstream water quality with regard to the removal of sediments/turbidity as the proposed Project.
Hydrology and Water Quality (Threshold C) Substantially deplete groundwater supplies or interfere with groundwater recharge.	Less than Significant: The proposed Project does not involve the extraction of groundwater and it will not create a substantial addition of impervious surfaces within the Moreno MDP Watershed such that existing areas of groundwater recharge are affected. The proposed project includes three detention basins and two debris basins with a total projected infiltration potential of 95 to 336 acre-feet per day as stormwater flows are conveyed through the Project Facilities.	Impacts Greater than the Project; Less than Significant Impacts: The No Project Alternative does not involve groundwater extraction and it will not interfere with groundwater recharge. The No Project Alternatives includes one detention basin with a projected infiltration potential of 24 to 94 acre-feet per day as stormwater flows are conveyed through the 1991 Moreno MDP Facilities. The No Project Alternative has substantially less potential for infiltration as the proposed Project.	Impacts Same as the Project; Less than significant Impacts: As with the proposed Project, Alternative 1 does not involve groundwater extraction and it will not interfere with groundwater recharge. Alternative 1 includes two debris basins and one detention basins with a total projected infiltration potential of 97 to 460 acre-feet per day as stormwater flows are conveyed through the Alternative 1 Facilities. Alternative 1 has essentially the same potential for infiltration as the proposed Project.	Impacts Same as the Project; Less than Significant Impacts: As with the proposed Project, Alternative 2A does not involve groundwater extraction and it will not interfere with groundwater recharge. Alternative 2A includes one debris basin and five detention basins with a total projected infiltration potential of 96 to 490 acre-feet of per day as stormwater flows are conveyed through the Alternative 2A Facilities. Alternative 2A has essentially the same potential for infiltration as the proposed Project.	Impacts Same as the Project; Less than Significant Impacts: As with the proposed Project, Alternative 2B does not involve groundwater extraction and it will not interfere with groundwater recharge. Alternative 2B includes one debris basin and four detention basins with a total projected infiltration potential of 92 to 338 acre-feet per day as stormwater flows are conveyed through the Alternative 2B Facilities. Alternative 2B has essentially the same potential for infiltration as the proposed Project.	Impacts Same as the Project; Less than Significant Impacts: As with the proposed Project, Alternative 3 does not involve groundwater extraction and it will not interfere with groundwater recharge. Alternative 3 includes one debris basin and three detention basins with a total projected infiltration potential of 88 to 301 acre-feet of per day as stormwater flows are conveyed through the Alternative 3 Facilities. Alternative 3 has essentially the same potential for infiltration as the proposed Project.
Hydrology and Water Quality (Threshold D) Substantially alter existing drainage patterns or increase surface runoff that would	Less than Significant with Mitigation: The proposed Project's Facilities were designed and sized to follow the historic and natural drainage conditions. Existing drainage patterns includes sheet flows due to the lack of natural watercourses and substantial drainage facilities. The Project will modify the existing drainage condition by collecting and conveying the current sheet flows in Project Facilities.	Impacts Greater than the Project; Less than Significant Impacts: The No Project Alternative will modify the drainage pattern by collecting and conveying the current sheet flows in Facilities identified in the 1991 Moreno MDP. The No Project Alternative includes Facilities that constitutes a major diversion of the	Impacts Same as the Project; Less than Significant Impacts with Mitigation: As with the proposed Project, Alternative 1 would modify the existing drainage condition by collecting and conveying the current sheet flows, but Alternative 1 does not follow the natural and historic drainage conditions to the same	Impacts Same as the Project; Less than Significant Impacts with Mitigation: As with the proposed Project, Alternative 2A would modify the existing drainage condition by collecting and conveying the current sheet flows. Alternative 2A revises a number of alignments and mimics existing	Impacts Same as the Project; Less than Significant Impacts with Mitigation: As with the proposed Project, Alternative 2B would modify the existing drainage condition by collecting and conveying the current sheet flows. Alternative 2B mimics existing drainage conditions to a similar	Impacts Same as the Project; Less than Significant Impacts with Mitigation: As with the proposed Project, Alternative 3 would modify the existing drainage condition by collecting and conveying the current sheet flows. Alternative 3 mimics existing drainage conditions to a similar extent as the proposed

Table 7-E – Comparison of Alternatives Matrix

Environmental Issue	Proposed Project	No Project Alternative	Alternative 1	Alternative 2A	Alternative 2B	Alternative 3
result in flooding	When completed the Project’s Facilities combined with street improvement will provide a comprehensive drainage system to convey runoff through the Moreno MDP Watershed. Implementation of mitigation measure MM HYD 2 would ensure that individual Project Facilities are completed so that storm flows from each Facility will be conveyed to an adequate outlet to avoid flooding.	natural drainage course upstream of State Route 60; thus it is expected to have slightly greater impacts than the Project. The Facilities in the No Project Alternative were sized based on outdated land use and rainfall data.	degree as the proposed Project. However, Alternative 1 includes a debris basin and peak reduction basin to account for the expected debris volumes and higher rainfall rates. In addition, as with the proposed Project, Alternative 1 would implement mitigation measure MM HYD 2 , which would ensure that individual Project Facilities are completed so that storm flows from each Facility will be conveyed to an adequate outlet to avoid flooding. Therefore, the impacts would be similar to the proposed Project.	drainage conditions to a marginally greater extent than the proposed Project. Alternative 2A would implement mitigation measure MM HYD 2 , which would ensure that individual Project Facilities are completed so that storm flows from each Facility will be conveyed to an adequate outlet to avoid flooding. Therefore, the impacts would be similar to the proposed Project.	extent as the proposed Project and Alternative 2B would implement mitigation measure MM HYD 2 , which would ensure that individual Project Facilities are completed so that storm flows from each Facility will be conveyed to an adequate outlet to avoid flooding. Therefore, the impacts would be similar to the proposed Project.	Project and Alternative 3 would implement mitigation measure MM HYD 2 , which would ensure that individual Project Facilities are completed so that storm flows from each Facility will be conveyed to an adequate outlet to avoid flooding. Therefore, the impacts would be similar to the proposed Project.
Hydrology and Water Quality (Threshold E) Place structures within a 100-year Flood Hazard Area	Less than Significant: Portions of the Moreno MDP Facilities will be constructed within 100-year flood hazard areas due to the flat topography, but will help contain the 100-year storm flows.	Impacts Greater than the Project; Less than Significant Impacts: As with the proposed Project, portions of the Facilities identified in the 1991 Moreno MDP will be constructed within the 100-year flood hazard area. However, because the 1991 Moreno MDP Facilities were designed and sized based on older land use assumptions and older rainfall data, these facilities will not contain the 100-year storm flows to the same extent as the proposed Project Facilities.	Impacts Same as the Project; Less than Significant Impacts: As with the proposed Project, portions of the Alternative 1 Facilities will be constructed within 100-year flood hazard areas , but will help contain the 100-year storm flows.	Impacts Same as the Project; Less than Significant Impacts: As with the proposed Project, portions of the Alternative 2A Facilities will be constructed within 100-year flood hazard areas , but will help contain the 100-year storm flows.	Impacts Same as the Project; Less than Significant Impacts: As with the proposed Project, portions of the Alternative 2B Facilities will be constructed within 100-year flood hazard areas , but will help contain the 100-year storm flows.	Impacts Same as the Project; Less than Significant Impacts: As with the proposed Project, portions of the Alternative 3 Facilities will be constructed within 100-year flood hazard areas but will help contain the 100-year storm flows.
Noise (Threshold A) Exposure or generation of noise in excess of standards (Threshold C) Substantial Temporary or Periodic Noise Increase	Less than Significant with Mitigation: Long term noise impacts would result from the maintenance of the proposed Project’s Facilities and will be negligible. Implementation of the Project would entail construction of proposed Facilities within 200-feet of existing residential and commercial uses. Construction noise will be perceptible; however, the noise level at that distance will be below the allowable daytime noise levels set forth in the Moreno Valley Municipal Code.	Impacts Same as the Project; Less than Significant Impacts: The No Project Alternative would result in the same noise impacts as the proposed Project.	Impacts Same as the Project; Less than Significant Impacts with Mitigation: Alternative 1 would result in the same noise impacts as the proposed Project and implement the same mitigation measures.	Impacts Same as the Project; Less than Significant Impacts with Mitigation: Alternative 2A would result in the same noise impacts as the proposed Project and implement the same mitigation measures.	Impacts Same as the Project; Less than Significant Impacts with Mitigation: Alternative 2B would result in the same noise impacts as the proposed Project and implement the same mitigation measures.	Impacts Same as the Project; Less than Significant Impacts with Mitigation: Alternative 3 would result in the same noise impacts as the proposed Project and implement the same mitigation measures.

Table 7-E – Comparison of Alternatives Matrix

Environmental Issue	Proposed Project	No Project Alternative	Alternative 1	Alternative 2A	Alternative 2B	Alternative 3
	Mitigation measures that limit construction hours (MM NOI 1) require properly tuned construction equipment (MM NOI 2), inform potential sensitive receivers of pending construction (MM NOI 3), and limit equipment idling time (MM Air 2) would be implemented.					
Noise (Threshold B) Exposure or generation of excessive ground-borne vibration or ground-borne noise	Less than Significant with Mitigation: Long term noise vibration associated with the maintenance of the proposed Project Facilities will be negligible. Construction of certain Facilities may take place within 50-feet of residential structures. Vibrational noise may occur during construction of the proposed Project. At a distance of 50 feet vibration would be “Barely Perceptible” and at 25 feet vibration noise would be “Distinctly Perceptible.” Construction-related vibration is significantly below the vibration damage threshold for any structure. Exposure to vibration would be limited through implementation of mitigation measure MM NOI 1 .	Impacts Same as the Project; Less than Significant Impacts: The No Project Alternative would result in the same vibration impacts at the proposed Project.	Impacts Same as the Project; Less than Significant Impacts with Mitigation: Alternative 1 would result in the same vibration impacts at the proposed Project and would implement mitigation measure MM NOI 1 .	Impacts Same as the Project; Less than Significant Impacts with Mitigation: Alternative 2A would result in the same vibration impacts at the proposed Project and would implement mitigation measure MM NOI 1 .	Impacts Same as the Project; Less than Significant Impacts with Mitigation: Alternative 2B would result in the same vibration impacts at the proposed Project and would implement mitigation measure MM NOI 1 .	Impacts Same as the Project; Less than significant Impacts with Mitigation: Alternative 3 would result in the same vibration impacts at the proposed Project and would implement mitigation measure MM NOI 1 .
Environmentally Superior to Proposed Project?	Not applicable	Yes	Very slightly, but still has significant and unavoidable impacts	Very slightly, but still has significant and unavoidable impacts	Slightly, but still has significant and unavoidable impacts	No

In addition to trying to minimize significant impacts of a project, a project alternative must be able to feasibility attain most of the basic objectives of the Project. All the alternatives were compared to each other, evaluated against the Project Objectives identified in Section 7.1, and assigned a numerical score of 0, 1, 2, or 3, as follows:

- Alternatives that satisfy a Project Objective in a reasonably comparable manner as the proposed Project or other alternatives are assigned a score of 2
- Alternatives that satisfy a Project Objective less than the proposed Project or other alternatives are assigned a score of 1;

- Alternatives (including the proposed Project) that satisfy a Project Objective more than those Alternatives assigned a score of 2 are assigned a score of 3; and
- Alternatives (including the proposed Project) that do not satisfy a Project Objective are assigned a score of 0.

Because the Project Objectives are equally important to the District, they are not weighted. There are eight Project Objectives; thus the highest score that can be attained is 24. **Table 7-F - Evaluation of the Proposed Project and the Alternatives Success at Meeting the Project Objectives** provide an assessment of the Project Objectives for the proposed Project and each alternative.

Table 7-F – Evaluation of the Proposed Project and the Alternatives Success at Meeting the Project Objectives

Project Objective	Proposed Project	No Project Alternative	Alternative 1	Alternative 2A	Alternative 2B	Alternative 3
<p>1. Revise the Moreno MDP to provide a drainage plan which supports the existing and proposed land use as set forth in the “Riverside County General Plan” updated in 2008, “City of Moreno Valley General Plan” updated in July 2006, and any proposed amendments thereto.</p>	<p>Score: 3</p> <p>The proposed Project and Alternatives 1, 2A, 2B, and 3 are designed to support to existing and proposed land uses in the 2006 and 2008 updates to the Moreno Valley General Plan and Riverside County General Plan, respectively.</p> <p>The proposed Project is more consistent with the land use designations in the Moreno Valley General Plan because the proposed Cactus Basin is located adjacent to property upon which the Moreno Valley will ultimately develop a park. Additionally, of all the alternatives identified in the MDP Report, the proposed Project is the one preferred by Moreno Valley, which in addition to being a responsible agency for the PEIR is the jurisdiction with land use authority in the Moreno Watershed.</p>	<p>Score: 1</p> <p>The No Project Alternative is implementation of the 1991 Moreno MDP, which does not support the proposed land uses set forth in the updated (2008) Riverside County General Plan or the updated (2006) Moreno Valley General Plan.</p>	<p>Score: 2</p> <p>The proposed Project and Alternatives 1, 2A, 2B, and 3 are designed to support to existing and proposed land uses in the 2006 and 2008 updates to the Moreno Valley General Plan and Riverside County General Plan, respectively.</p>	<p>Score: 2</p> <p>The proposed Project and Alternatives 1, 2A, 2B, and 3 are designed to support to existing and proposed land uses in the 2006 and 2008 updates to the Moreno Valley General Plan and Riverside County General Plan, respectively.</p>	<p>Score: 2</p> <p>The proposed Project and Alternatives 1, 2A, 2B, and 3 are designed to support to existing and proposed land uses in the 2006 and 2008 updates to the Moreno Valley General Plan and Riverside County General Plan, respectively.</p>	<p>Score: 2</p> <p>The proposed Project and Alternatives 1, 2A, 2B, and 3 are designed to support to existing and proposed land uses in the 2006 and 2008 updates to the Moreno Valley General Plan and Riverside County General Plan, respectively.</p>
<p>2. The fully implemented plan should, in conjunction with ultimate street improvements for the area within the boundaries of the Moreno MDP, contain the 100-year frequency flows and alleviate the primary sources of flooding.</p>	<p>Score: 3</p> <p>The proposed Project and Alternatives 1, 2A, 2B, and 3 are designed to provide the same level of flood protection in conjunction with the street improvements.</p>	<p>Score: 1</p> <p>The No Project Alternative does not include reconstruction of Line F-2 to accommodate 100-year storm flows, as mutually agreed upon by the District and Moreno Valley. Under the No Project Alternative Line F-2 will remain as a 10-year facility. Additionally, facilities in the No Project Alternative were sized based on older rainfall data and prior to the updates to the</p>	<p>Score: 3</p> <p>The proposed Project and Alternatives 1, 2A, 2B, and 3 are designed to provide the same level of flood protection in conjunction with the street improvements.</p>	<p>Score: 3</p> <p>The proposed Project and Alternatives 1, 2A, 2B, and 3 are designed to provide the same level of flood protection in conjunction with the street improvements.</p>	<p>Score: 3</p> <p>The proposed Project and Alternatives 1, 2A, 2B, and 3 are designed to provide the same level of flood protection in conjunction with the street improvements.</p>	<p>Score: 3</p> <p>The proposed Project and Alternatives 1, 2A, 2B, and 3 are designed to provide the same level of flood protection in conjunction with the street improvements.</p>

Table 7-F – Evaluation of the Proposed Project and the Alternatives Success at Meeting the Project Objectives

Project Objective	Proposed Project	No Project Alternative	Alternative 1	Alternative 2A	Alternative 2B	Alternative 3
		Riverside County General Plan and the Moreno Valley General Plan.				
3. Identify preferred facility alignments, sizing, and right-of-way required for the future construction of MDP facilities to protect existing and future development. (Criteria for this objective is whether the alternative takes into consideration future land uses the 2006 and 2008 updates to the Moreno Valley and Riverside County General Plans, respectively)	Score: 3 The proposed Project and Alternatives 1, 2A, 2B, and 3 are designed to provide the same level of flood protection in conjunction with the street improvements. However, the proposed Project fits best with the City's planned land use, and is preferred by the City, which is the agency with land use authority.	Score: 1 Facilities in the No Project Alternative were sized based on older rainfall data and prior to the updates to the Riverside County General Plan and the Moreno Valley General Plan.	Score: 2 All Alternatives include Facilities that were sized to convey projected flows, in conjunction with the street improvement. However, none satisfy the City's land use plans as well as the proposed Project. The proposed Project and	Score: 2 All Alternatives include Facilities that were sized to convey projected flows, in conjunction with the street improvement. However, none satisfy the City's land use plans as well as the proposed Project.	Score: 2 All Alternatives include Facilities that were sized to convey projected flows, in conjunction with the street improvement. However, none satisfy the City's land use plans as well as the proposed Project.	Score: 2 All Alternatives include Facilities that were sized to convey projected flows, in conjunction with the street improvement. However, none satisfy the City's land use plans as well as the proposed Project.
4. Identify the most economical combination of facilities considering right-of-way acquisition, construction, and maintenance costs.	Score 2 The proposed Project includes three detention basins and two debris basins. Maintenance needs of the proposed Project are considered less than Alternatives 2A and 2B because the additional debris basin would capture debris that would otherwise clog downstream Facilities. Note that debris basins reduce the cost of downstream maintenance; however, no detailed cost analysis was conducted to determine exact savings regarding downstream maintenance.	Score: 3 The No Project Alternative includes only one basin and all channels are concrete-lined. Because scheduling for maintenance activities is expected to increase with the number of basins proposed, this alternative would require the least amount of maintenance.	Score: 3 Alternative 1 includes three basins, which is the fewest number of basins in comparison to the proposed Project, Alternatives 2A, 2B, and 3. The number of basins in combination with Alternative 1's concrete-lined channels is expected to require less maintenance than the Facilities proposed by the proposed Project or Alternatives 2A, 2B, and 3.	Score: 1 Alternative 2A proposes five detention basins and one debris basin, which is among the highest number of basins proposed by any of the alternatives. Because Alternative 2A only includes one debris basin, it would not reduce the maintenance needs of downstream Facilities to the same extent as the proposed Project.	Score: 1 Alternative 2B proposes four detention basins and one debris basin, which is among the highest number of basins proposed by any of the alternatives. Because Alternative 2B only includes one debris basin, it would not reduce the maintenance needs of downstream Facilities to the same extent as the proposed Project.	Score: 2 Alternative 3 proposes three detention basins and one debris basin, which is a fewer number of basins in comparison to the proposed Project. Because Alternative 3 only includes one debris basin, it would not reduce the maintenance needs of downstream Facilities to the same extent as the proposed Project.
5. Develop a plan which, when implemented, will result in the elimination of FEMA designated Special Flood Hazard Areas within the boundaries of the Moreno MDP.	Score: 3 The proposed Project and Alternatives 1, 2A, 2B, and 3 were developed to reduce flooding and allow the removal of FEMA mapped Special Flood Hazard Areas within the Moreno	Score: 1 The No Project Alternative was not developed to eliminate FEMA designated Special Flood Hazard Areas within the Moreno Watershed. Flooding in the eastern portion of Moreno	Score: 3 The proposed Project and Alternatives 1, 2A, 2B, and 3 were developed to reduce flooding and allow the removal of FEMA mapped Special Flood Hazard Areas within the Moreno	Score: 3 The proposed Project and Alternatives 1, 2A, 2B, and 3 were developed to reduce flooding and allow the removal of FEMA mapped Special Flood Hazard Areas within the Moreno	Score: 3 The proposed Project and Alternatives 1, 2A, 2B, and 3 were developed to reduce flooding and allow the removal of FEMA mapped Special Flood Hazard Areas within the Moreno	Score: 3 The proposed Project and Alternatives 1, 2A, 2B, and 3 were developed to reduce flooding and allow the removal of FEMA mapped Special Flood Hazard Areas within the Moreno

Table 7-F – Evaluation of the Proposed Project and the Alternatives Success at Meeting the Project Objectives

Project Objective	Proposed Project	No Project Alternative	Alternative 1	Alternative 2A	Alternative 2B	Alternative 3
	Watershed.	Valley would continue to occur.	Watershed.	Watershed.	Watershed.	Watershed.
6. Revise the Moreno MDP to minimize major diversions and perpetuate the natural drainage pattern of the area to the maximum extent practicable. (Criterion for this objective is the extent to which the major diversion upstream of State Route 60 is reduced.)	Score: 2 The proposed Project and Alternatives 2B and 3 reduces the Line A diversion; however it includes minor diversions primarily related to the proposed Line D alignment.	Score: 0 The No Project Alternative includes a major diversion upstream of State Route 60 (Line A).	Score: 0 Alternative 1 maintains the Line A Diversion that is a part of the 1991 Moreno MDP.	Score: 3 Alternative 2A most effectively removes the Line A diversion in addition to minimizing diversions within the drainage area better than the other alternatives.	Score: 2 Alternative 2B reduces the Line A diversion; however this alternative includes minor diversions primarily related to the proposed Line D alignment.	Score: 2 Alternative 3 reduces the Line A diversion; however this alternative includes minor diversions primarily related to the proposed Line D alignment.
7. Where feasible, incorporate facilities which encourage infiltration. (Criteria used for this objective is projected infiltration within basins and earthen channels.)	Score: 2 Projected infiltration for the proposed Project is between 95 to 336 acre-feet per day (Table 5-4-F), which is similar to Alternative 2B and lower than Alternative 2A. This alternative includes earthen channels.	Score: 0 The only Facility in the No Project Alternative that would provide infiltration opportunities is the Sinclair Basin. All channels are concrete-lined in this alternative.	Score: 1 Projected infiltration for Alternative 1 is between 97 to 460 acre-feet per day (Table 7-B), which is the higher than Alternatives 2A, 2B, and 3. However, because this this alternative includes concrete channels it is only scored 1.	Score: 2 Projected infiltration for Alternative 2A is between 96 to 490 acre-feet per day (Table 7-B), which is similar to Alternative 1 and higher than Alternatives 2B and 3. This alternative includes earthen channels.	Score: 1 Projected infiltration for Alternative 2B ranges from 92 to 338 acre-feet per day, which is similar to Alternative 3 (Table 7-C). This alternative includes earthen channels.	Score: 1 Projected infiltration for Alternative 3 is between 88 to 301 acre-feet per day, which is similar to Alternative 2B (Table 7-D). This alternative includes earthen channels.
8. Minimize environmental impacts to the maximum extent practicable. (Criteria used for this objective includes: basin footprint size, potential for sediment/debris, reduction, and the location of any Facilities that would provide a noise buffer from State Route 60 traffic noise.)	Score: 3 The proposed Project is comparable in basin footprint to Alternative 3. This alternative includes the Reche Canyon and Ironwood Debris Basins to reduce sediment and the Sinclair and Quincy Basins north of State Route 60, which would provide a noise buffer (Figure 3-2).	Score: 1 Although the No Project Alternative has the smallest footprint, it does not include any debris basins, thus there would be no reduction of debris from the watershed. In addition, this alternative does not include the placement of any basins to provide noise buffers for the community.	Score: 2 Alternative 1 is comparable in basin footprint to Alternatives 2A and 2B; however, because this alternative includes concrete-lined channels it will have a smaller channel footprint than Alternatives 2A, 2B, and 3. This alternative includes only one debris basin (Reche Canyon Debris Basin) and does not provide any noise buffer (Figure 7-2).	Score: 2 Alternative 2A is comparable in basin footprint to Alternatives 1 and 2B; however, because this alternative includes earthen-lined channels it will have a larger channel footprint than Alternative 1. This alternative includes the Reche Canyon Debris Basin to reduce sediment and the Sinclair Basin north of State Route 60, which would provide a noise buffer (Figure 7-3).	Score: 2 Alternative 2B is comparable in basin footprint to Alternatives 1 and 2A; however, because this alternative includes earthen-lined channels it will have a larger channel footprint than Alternative 1. This alternative includes the Reche Canyon Debris Basin to reduce sediment but does not include any Facilities that would provide a buffer from State Route 60 traffic noise (Figure 7-4).	Score: 2 Alternative 3 has the largest basin footprint. This alternative includes the Reche Canyon Debris Basin to reduce sediment and the Fir Basin south of State Route 60, which would provide a noise buffer (Figure 7-5).
Total Score (out of 24):	21	8	16	18	16	17

7.8 Environmentally Superior Alternative

CEQA requires that an environmentally superior alternative be selected among the alternatives that were analyzed in the PEIR.

Because the Project is the implementation of a revision to the 1991 Moreno MDP, the boundary for all alternatives is the same as the proposed Project; each alternative, except the No Project Alternative, provides the same level of flood protection within the Moreno Watershed; and all alternatives were developed to reduce flooding, and allow the removal of FEMA mapped Special Flood Hazard Areas. Other than the No Project Alternative, all Alternatives include multiple basins with only a 10 acre difference between the overall footprint of the proposed Project and Alternatives 1, 2A, 2B, and 3. None of the alternatives evaluated, including the No Project Alternative, will reduce the amount of NO_x and VOC generated during project construction to below the SCAQMD thresholds for these pollutants to eliminating the Project's only significant impact. The No Project Alternative includes substantially fewer basins and a substantially smaller basin footprint than the other alternatives. Therefore, even though the No Project Alternative would result significant impacts to air quality, its emissions would be incrementally less than Alternatives 1, 2A, 2B, and 3 and for this reason is considered the environmentally superior alternative.

When the No-Project Alternative is the environmentally superior alternative, an EIR must also identify an environmentally superior alternative among the other alternatives (CEQA Guidelines Section 15126.6(e)(2)). In general, the environmentally superior alternative is defined as that alternative with the least adverse impacts to the Project area and its surrounding environment. As shown in **Table 7-E – Comparison of Alternatives Matrix**, impacts among Alternatives 1, 2A, 2B, and 3 are so similar to the proposed Project and each other that there is no single alternative that is environmentally superior to the others.

As shown in **Table 7-F - Evaluation of the Proposed Project and the Alternatives Success at Meeting the Project Objectives**, none of the alternatives meet the basic Project Objectives as fully as the proposed Project. Additionally CEQA recognizes that in determining whether and how a project should be approved, a public agency has an obligation to balance a variety of public objectives. The entire Moreno Watershed is located totally within the corporate limits and sphere of influence of Moreno Valley. Moreno Valley is not only a responsible agency for CEQA purposes it is also the agency with land use authority within the Moreno Watershed. In that capacity, Moreno Valley assisted the District with the establishment of the Project Objectives and the selection of the proposed Project from among the alternatives identified in the MDP Report. Because none of the alternatives evaluated effectively lessens or avoids the significant short-term air quality impacts during construction and the proposed Project most fully meets the Project's objectives, the District may adopt the proposed Project with the mitigation measures identified in this PEIR.

7.9 References

The following reference was used in the preparation of this section of the Draft PEIR:

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Section 8 – References and Persons Consulted

8.1 References

The following documents were referred to as general information sources during preparation of this Draft PEIR. They are available for public review at the locations identified after each listing. They are referenced in the Draft PEIR by the acronyms shown at the end of each reference.

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Section 5.4 Hydrology and Water Quality

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- Riverside County, *Moreno Valley Ranch Specific Plan/EIR* [SCH No: 1984050907] certified October 1985. (Available at Moreno Valley Planning Department) [Cited as MVR SP/EIR]
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- Riverside County Flood Control and Water Conservation District, *Draft Moreno Master Drainage Plan, Zone 4*, Revision No. 2, April 2014. (Available at the Riverside County Flood Control and Water Conservation District) [Cited as MDP Report]
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- City of Moreno Valley, *Municipal Code*, August 2011. (Available at <http://qcode.us/codes/morenovalley/>, accessed January 12, 2012.) [Cited as MVMC]

Section 6 Other CEQA Topics

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- Southern California Association of Governments, *RE: SCAG Comments on the Notice of Preparation of a Draft Programmatic Environmental Impact Report for the Moreno Master Drainage Plan Revision [I20120067]*, prepared by Jacob Lieb, Manager of Environmental and Assessment Services, April 30, 2012. (Appendix A.)

Section 7 Alternatives to the Proposed Project

- Riverside County Flood Control and Water Conservation District, *Draft Moreno Master Drainage Plan, Zone 4, Revision No. 2, April 2014.*(Available at the Riverside County Flood Control and Water Conservation District) [Cited as MDP Report]

8.2 Persons Consulted

Riverside County Flood Control and Water Conservation District

1995 Market Street
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8.3 List of Preparers

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Section 9 – Final Program Environmental Impact Report Background

The Final Program Environmental Impact Report (Final PEIR), as required pursuant to State *CEQA Guidelines* Sections 15089 and 15132, includes the Draft Program Environmental Impact Report (Draft PEIR) or a revision thereof, comments and recommendations received on the Draft PEIR, a list of persons, organizations, and public agencies commenting on the Draft PEIR, and the responses of the lead agency, which is the Riverside County Flood Control and Water Conservation District (District) for this Project, to significant environmental points raised in the review and consultation process. A Mitigation Monitoring and Reporting Program (MMRP) is also included to ensure compliance during Project implementation (Public Resources Code Section 21081.6, State *CEQA Guidelines* Section 15097).

9.1 Information Added Following Distribution of the Draft PEIR

The information added following distribution of the Draft PEIR does not constitute “significant new information” pursuant to State *CEQA Guidelines* Section 15088.5 because this information does not change the Project impacts and/or mitigation measures such that new or more severe environmental impacts result from the Project. The information is added as a result of comments received from responsible agencies, changes in the existing conditions at the site, revised public policies since the Draft PEIR was written, and/or minor corrections or clarifications. The additional information merely “clarifies or amplifies or makes insignificant modifications” in the already adequate Draft PEIR, as is permitted by State *CEQA Guidelines* Section 15088.5(b).

9.2 Relationship to the Draft PEIR

Minor changes that clarify or correct minor inaccuracies in the Draft PEIR appear as revised pages in the Corrections, Errata, and Changes from Draft PEIR to Final PEIR section which follows herein. The Draft PEIR considered by the District, as lead agency, has been edited to reflect corrections and responses to comments raised.

9.3 Corrections, Errata, and Changes from Draft PEIR to Final PEIR

As explained above, this Final PEIR contains corrections, errata, and additions to the information contained in the Draft PEIR. These changes do not constitute “significant new information” pursuant to State *CEQA Guidelines* Section 15088.5 because they do not change the Project impacts and/or mitigation measures such that new or more severe environmental impacts result from the Project. Such items are sometimes added as a result of comments received from responsible agencies or other commenters, changes in the existing conditions at the site, revised public policies since the Draft PEIR was written, and/or minor corrections or clarifications.

As provided in State *CEQA Guidelines* Section 15088(c), responses to comments may take the form of a revision to a Draft PEIR or may be a separate section in the Final PEIR. This section complies with the latter and provides changes to the Draft PEIR in revision-mode text, i.e., deletions are shown with

strikethrough text (~~example text~~) and additions are shown with double underline text (example text). These notations are meant to provide clarification, corrections, or minor revisions as needed as a result of public comments or because of changes in the Project since the release of the Draft PEIR, as required by State *CEQA Guidelines* Section 15132. None of the corrections and additions constitute significant new information or substantial Project changes requiring recirculation, as defined by State *CEQA Guidelines* Section 15088.5.

The following summary will present the location and types of additions and changes or corrections made within each section of the Final PEIR since the Draft PEIR was published.

Section 1 – Executive Summary

At the request of the City of Moreno Valley, the last paragraph on page 1-1 has been clarified as follows:

If the PEIR is certified and the Project is approved by the Board of Supervisors, as future individual MDP Facilities are proposed, the District or any other jurisdiction having discretionary approval related to the MDP Facility (i.e., City of Moreno Valley or County of Riverside), will be required to examine each Facility on its own merits pursuant to CEQA. Potential Facility-specific CEQA documents include an initial study (IS) leading to a negative declaration or mitigated negative declaration (MND); supplemental environmental impact report (EIR); or subsequent EIR. However, pursuant to Section 15168(c)(2) of the CEQA Guidelines, if the District or any other jurisdiction having discretionary approval related to the MDP facility finds that pursuant to Section 15162, no new effects could occur or no new mitigation measures would be required, the Lead or Responsible Agency can approve the activity as being within the scope of the Project covered by the PEIR, and no new environmental document would be required. In addition, since many of the MDP facilities may be designed and/or constructed as part of private development projects processed by Moreno Valley, the Facility-specific analysis may be included as part of the environmental documentation and CEQA process for a development project, provided it includes adequate CEQA analysis on any related MDP Facilities.

To reflect a change in the name of **Table 1-A** and identify the updated location of the Mitigation Monitoring and Reporting Program, the last paragraph on page 1-8 of the Draft PEIR has been revised as follows:

The following table, **Table 1-A – Draft PEIR Impact Summary Matrix/~~Mitigation Monitoring Program~~**, provides a summary of impacts related to the Project pursuant to State *CEQA Guidelines* Section 15123(b)(1). The table identifies any significant environmental impacts resulting from the Project along with applicable mitigation measures required to reduce impacts to a less than significant level, where possible.

Note that the updated Mitigation Monitoring and Reporting Program is contained in its final form under in **Table 11-A** in Section 11 of this document.

To avoid conflict with the organization of the **Table 11-A – Mitigation Monitoring and Reporting Program** of this Final PEIR, the name of **Table 1-A** has been changed from Draft PEIR Impact Summary Matrix/Mitigation Monitoring Program to Draft PEIR Impact Summary Matrix. **Table 1-A** has been revised and the two columns titled “Implementation Timing” and “Responsible Party” have been removed.

In response to comments received from the City of Moreno Valley, the portions of **Table 1-A – Draft PEIR Impact Summary Matrix** containing mitigation measures **MM Air 1** and **MM NOI 1** have been revised as shown below. As a result of a meeting between the District and Mr. Joseph Ontiveros of the Soboba Band of Luiseño Indians, the portions of **Table 1-A** containing mitigation measures **MM CR 1**, **MM CR 2**, and **MM CR 3** have been revised as shown below.

Table 1-A – Draft PEIR Impact Summary Matrix/~~Mitigation Monitoring Program~~¹

Impact Category	Impact	Mitigation Measure	Impact After Mitigation
Air Quality and Greenhouse Gas Emissions	Violate any air quality standard or contribute substantially to an existing or projected air quality violation.	MM Air 1: For channel and basin Facilities, during construction, ozone precursor emissions from all vehicles and construction equipment shall be controlled by maintaining equipment engines in good condition, in proper tune per manufacturers’ specifications. Equipment maintenance records and equipment design specification data sheets shall be kept on site during construction. Compliance with this measure shall be subject to periodic inspections by the Lead Agency <u>or by means of another form of documentation as approved by the Lead Agency</u> (i.e., Moreno Valley, Riverside County, or District).	Significant and unavoidable impacts
Cultural Resources	Create a substantial adverse change in the significance of a historical resource as defined in Section 15064.5.	MM CR 1– Before <u>At the project level, prior to the issuance of a Notice to Proceed with construction of any MDP Facility, the applicable Lead Agency (the District, Riverside County, or City of Moreno Valley) shall evaluate each proposed MDP Facility for potential impacts to cultural resources. for which there is a change in the location or size of disturbance area from what was evaluated in the</u> The Lead Agency shall consider applicable data and analyses, such <u>as the Phase I Archaeological Assessment, Moreno Master Drainage Plan Revision, City of Moreno Valley, Riverside County, California (CRM TECH, January 31, 2012), Map of Soboba Band of Luiseño Indians Potentially Sensitive</u>	Less than Significant

¹ The table shown here is abridged from the version contained in the Draft PEIR and only shows the text of the affected mitigation measures.

Impact Category	Impact	Mitigation Measure	Impact After Mitigation
		<p><u>Areas dated September 10, 2014, the City of Moreno Valley General Plan, and other relevant record searches, technical studies, and evidence provided by local Tribes. If needed, the Lead Agency shall require additional CEQA analysis to evaluate potential impacts to cultural resources-</u> the District, Riverside County, or Moreno Valley Public Works Department shall require the proponent of such MDP Facility to prepare or cause to be prepared a Facility-specific assessment of the potential for archaeological and cultural resources in order to determine the presence or extent of any such resources and evaluate the significance of such resources (if present). This assessment shall include, at minimum a Native American Heritage Commission Sacred Lands File search, a records search at the Eastern Information Center at the University of California Riverside, a walkover survey, and preparation of a written report containing the results of the assessment. The archaeological evaluations shall be completed prior to the commencement of any ground disturbing activities.</p>	
Cultural Resources	Create a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5.	<p>MM CR 1 (see above)</p> <p>MM CR 2: Should any cultural and/or archaeological resources be discovered during construction of any proposed MDP Facility, construction activities in the vicinity of the discovery shall immediately halt and construction shall be moved to other parts of the subject MDP Facility footprint. A qualified archaeologist shall be retained by the proponent (or designee) of such MDP Facility to determine the significance of the resource(s). If the find is determined to be a historical or unique archaeological resource, as defined in Section 15064.5 of the California Code of Regulations (State <i>CEQA Guidelines</i>), avoidance or other appropriate measures as recommended by the archaeologist shall be implemented. Any artifacts collected or recovered shall be cleaned, identified, catalogued, analyzed, and prepared for curation at an appropriate repository with permanent retrievable storage to allow for additional research in the future. Site records or site record updates (as appropriate) shall be prepared and submitted to the Eastern Information Center as a permanent record of the discovery. <u>Treatment and disposition of any discoveries will be determined on a case-by-case basis, in consultation with the Soboba Band of</u></p>	Less than significant

Impact Category	Impact	Mitigation Measure	Impact After Mitigation
		<p><u>Luiseño Indians.</u></p> <p>MM CR 3: If the Facility-specific assessment required by MM CR 1 determines <u>there is a moderate to high</u> potential for archaeological and/or cultural resources to occur along the alignment or area of disturbance, then prior to the issuance of a building grading permit, or <u>Notice to Proceed with</u> or construction of that proposed MDP Facility, the proponent for that Facility shall notify local Native American tribes <u>the Soboba Band of Luiseño Indians to discuss if a monitor is needed to oversee excavation and/or ground disturbing activities.</u> With permission of the Lead Agency (i.e., District, <u>City of Moreno Valley, or Riverside County</u>), tribal monitors may be allowed to monitor, at such tribe's sole cost and expense, all grading, excavation, and ground disturbing activities associated with that MDP Facility, including further surveys. <u>Any costs associated with the tribal monitoring shall be the responsibility of the monitoring Tribe, unless an executed agreement between the Tribe and project proponent provides other payment arrangements.</u></p>	
Noise	<p>Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies; and</p> <p>Cause a substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project</p>	<p>MM NOI 1: To minimize the construction noise exposure and prevent construction-related noise from disturbing sensitive receivers within proximity to the Project, construction of the MDP Facilities shall be in compliance with (a) Moreno Valley Municipal Code Section 8.21.050(O), which limits grading activities to the hours of 7:00 a.m. to 6:00 p.m. Monday through Friday, and from 8:00 a.m. to 4:00 p.m. on weekends and holidays and Moreno Valley Municipal Code Section 11.80.030(D)(7), which limits other construction activities, as well as operational and maintenance activities, to the hours of 6<u>7</u>:00 a.m. to 8:00 p.m. on weekdays and 7:00 a.m. to 8:00 p.m. on weekends and holidays. These time limits do not apply to emergency maintenance.</p>	Less than significant

Section 2 – Introduction

There are no revisions to this section of the Draft PEIR.

Section 3 – Project Description

There are no revisions to this section of the Draft PEIR.

Section 4 – Environmental Effects Found Not to be Significant

The portion of **Table 4-E – Comments Received in Response to the Notice of Preparation** regarding the written comments from the California Department of Transportation (Caltrans) has been revised as follows to correct a section reference.

Commenter	Location in Draft PEIR where Comment is Addressed
California Department of Transportation (Caltrans)	Drainage is addressed in Section 5.4 – Hydrology and Water Quality. Applicable Encroachment permits and/or traffic control plans required from Caltrans are identified in Section 3.4.1 <u>3.6</u> – Required Permits and Approvals.

Section 5 – Potentially Significant Environmental Effects

There are no revisions to this section of the Draft PEIR.

Section 5.1 – Air Quality and Greenhouse Gas Emissions

In response to a comment from the City of Moreno Valley, mitigation measure **MM Air 1** on page 5.1-35 has been clarified as follows:

MM Air 1: For channel and basin Facilities, during construction, ozone precursor emissions from all vehicles and construction equipment shall be controlled by maintaining equipment engines in good condition, in proper tune per manufacturers’ specifications. Equipment maintenance records and equipment design specification data sheets shall be kept on site during construction. Compliance with this measure shall be subject to periodic inspections by the Lead Agency or by means of another form of documentation as approved by the Lead Agency (i.e., Moreno Valley, Riverside County, or District).

Section 5.2 – Biological Resources

There are no revisions to this section of the Draft PEIR.

Section 5.3 – Cultural Resources

As a result of a meeting between the District and Mr. Joseph Ontiveros of the Soboba Band of Luiseño Indians, the second full paragraph on page 5.3-10 of the Draft PEIR has been revised as follows:

In a letter dated November 10, 2011, the Soboba Band of Luiseño Indians stated that although the Project is outside their existing reservation it is within their tribal Traditional Use Areas. The letter further states the MDP Watershed is regarded as highly sensitive to the people of Soboba because of its close proximity to known Luiseño village sites and trade routes between the Luiseño and Cahuilla tribes. (CRM-A, Appendix 2) Figure 5.3-1 – Soboba Band of Luiseño Indians Potentially Sensitive Areas, which is included at the end of this section, shows the location of the proposed MDP Facilities in regard to the potentially sensitive resources.

Figure 5.3-1 – Soboba Band of Luiseño Indians Potentially Sensitive Areas has been added to the end (page 5.3-17) of this section.

Also resulting from the meeting between the District and Mr. Ontiveros and discussion with the Pechanga Band of Luiseño Indians, mitigation measures **MM CR-1**, **MM CR-2**, and **MM CR-3** have been revised follows:

MM CR 1: ~~Before~~ At the project level, prior to the issuance of a grading permit or Notice to Proceed with construction of any MDP Facility, the applicable Lead Agency (the District, Riverside County, or City of Moreno Valley) shall evaluate each proposed MDP Facility for potential impacts to cultural resources. for which there is a change in the location or size of disturbance area from what was evaluated in the The Lead Agency shall consider applicable data and analyses, such as the Phase I Archaeological Assessment, Moreno Master Drainage Plan Revision, City of Moreno Valley, Riverside County, California (CRM TECH, January 31, 2012), Map of Soboba Band of Luiseño Indians Potentially Sensitive Areas dated September 10, 2014, the City of Moreno Valley General Plan, and other relevant record searches, technical studies, and evidence provided by local Tribes. If needed, the Lead Agency shall require additional CEQA analysis to evaluate potential impacts to cultural resources. ~~The District, Riverside County, or Moreno Valley Public Works Department shall require the proponent of such MDP Facility to prepare or cause to be prepared a Facility-specific assessment of the potential for archaeological and cultural resources in order to determine the presence or extent of any such resources and evaluate the significance of such resources (if present). This assessment shall include, at minimum a Native American Heritage Commission Sacred Lands File search, a records search at the Eastern Information Center at the University of California Riverside, a walkover survey, and preparation of a written report containing the results of the assessment. The archaeological evaluations shall be completed prior to the commencement of any ground-disturbing activities.~~

MM CR 2: Should any cultural and/or archaeological resources be discovered during construction of any proposed MDP Facility, construction activities in the vicinity of the discovery shall immediately halt and construction shall be moved to other parts of the subject MDP Facility footprint. A qualified archaeologist shall be retained by the proponent (or designee) of such MDP Facility to determine the significance of the resource(s). If the find is determined to be a historical or unique archaeological resource, as defined in Section 15064.5 of the California Code of Regulations (State CEQA Guidelines), avoidance or other appropriate measures as recommended by the archaeologist shall be implemented. Site records or site record updates (as appropriate) shall be prepared and submitted to the Eastern Information Center as a permanent record of the discovery. Treatment and disposition of any discoveries will be determined on a case-by-case basis, in consultation with the Soboba Band of Luiseño Indians.

MM CR 3: If the Facility-specific assessment required by **MM CR 1** determines there is a moderate to high potential for archaeological and/or cultural resources to occur along the alignment or area of disturbance, then prior to the issuance of a ~~building~~ grading permit, or Notice to Proceed with ~~or~~ construction of that proposed MDP Facility, the proponent for that Facility shall notify ~~local Native American tribes~~ the Soboba Band of Luiseño Indians to discuss if a monitor is needed to oversee excavation and/or ground disturbing construction activities. With written permission from the Lead Agency (i.e., District, City of Moreno Valley, or Riverside County), tribal monitors may be allowed to monitor, ~~at such tribe's sole cost and expense,~~ all grading, excavation, and ground disturbing activities associated with that MDP Facility, including further surveys. Any costs associated with the tribal monitoring shall be the responsibility of the monitoring Tribe, unless an executed agreement between the Tribe and project proponent provides other payment arrangements.

Section 5.4 – Hydrology and Water Quality

Moreno Valley's enforcement authority has been clarified in the last paragraph on page 5.4-19 of the Draft PEIR as follows:

Chapter 8.10 Stormwater/Urban Runoff Management and Discharge Controls
MVMC Chapter 8.10 regulates discharges into the City's sewer and storm drain systems, and implements the City's requirements under the MS4 permit. Among other things, this Chapter prohibits discharges to the City's sewer and storm drain systems that contain pollutants or that would impair the operation of those systems. This Chapter gives the City of Moreno Valley enforcement authority to declare violations, apply penalties, and impose stop-work orders, monitoring requirements, and other enforcement mechanisms.

Section 5.5 – Noise

The City of Moreno Valley identified a slight error in the Draft PEIR regarding construction start time for certain construction and maintenance activities. Therefore, pursuant to Municipal Code Section 11.80.030(D)(7), the start time for weekday construction, operational, and maintenance activities has been changed from 6:00 a.m. to 7:00 a.m. in the first full paragraph on page 5.5-11 as follows:

Limiting exposure of persons to construction-related noise impacts will be primarily achieved via time constraints as established by the Moreno Valley Municipal Code, which limits construction activities on weekdays from ~~6~~7:00 a.m. to 8:00 p.m., and from 7:00 a.m. to 8:00 p.m. on weekends and holidays (MVMC, Section 11.80.030.D.8); and which limits grading activities on weekdays from 7:00 a.m. to 6:00 p.m., and from 8:00 a.m. to 4:00 p.m. on weekends and holidays (MVMC 8.21.050.O); times when many people are not at home (mitigation measure **MM NOI 1**). Additional mitigation is achieved by maintaining construction equipment in good working order, informing sensitive receptors of pending construction, using electricity from power poles when

feasible as required by mitigation measures **MM NOI 2** through **MM NOI 4**. Moreover, mitigation measure **MM Air 2**, discussed previously in Section 5.1 – Air Quality and Greenhouse Gas Emissions, will also reduce construction noise by restricting engine idling times to five minutes.

Mitigation measure **MM NOI 1** on page 5.5-13 of the Draft PEIR has been updated as follows:

MM NOI 1: To minimize the construction noise exposure and prevent construction-related noise from disturbing sensitive receivers within proximity to the Project, construction of the MDP Facilities shall be in compliance with (a) Moreno Valley Municipal Code Section 8.21.050(O), which limits grading activities to the hours of 7:00 a.m. to 6:00 p.m. Monday through Friday, and from 8:00 a.m. to 4:00 p.m. on weekends and holidays and Moreno Valley Municipal Code Section 11.80.030(D)(7), which limits other construction activities, as well as operational and maintenance activities, to the hours of ~~6~~7:00 a.m. to 8:00 p.m. on weekdays and 7:00 a.m. to 8:00 p.m. on weekends and holidays. These time limits do not apply to emergency maintenance.

Section 6 – Other CEQA Topics

There are no revisions to this section of the Draft PEIR.

Section 7 – Alternatives to the Proposed Project

Information provided by the City of Moreno Valley that a tentative tract has been submitted will be added to the second full paragraph on page 7-4 to amplify the discussion regarding a potential basin location.²

Commenter-suggested location (iii) *an area bounded on the east by Redlands Boulevard, on the west by Wilmot Street, on the south by Cactus Avenue, and on the north by Brodiaea Avenue* and (iv) *an area on the east side of Merwin Street at Brodiaea Avenue* are infeasible alternatives because these locations will only attenuate flows from the Line F system and not the Line F-2 system. A basin at either of these locations would need to be sized to over-mitigate for the Line F-2 system, which would result in a larger, more costly basin. Additionally the Moreno Valley Planning Department commented that the property to the east of Merwin (Commenter-suggested location (iv)) is no longer within the World Logistics project site and a tentative tract map is currently under review for this location.

Section 8 – References

There are no revisions to this section of the Draft PEIR.

² The basin location was suggested by Mr. Devlin in a letter dated March 21, 2013, which is included as Appendix A.3 to the Draft PEIR.

9.4 Public Review Summary

The complete, EIR process typically consists of three parts: the Initial Study/Notice of Preparation (IS/NOP), Draft PEIR, and Final PEIR. The District distributed the IS/NOP from April 3, 2012, through May 2, 2012, to agencies, local governments, and interested parties of the general public. Pursuant to State *CEQA Guidelines* Section 15082, recipients of the IS/NOP were requested to provide responses within 30 days upon receipt. Copies of both the IS/NOP and comments received are included in Appendix A to the Draft PEIR.

The District circulated a Draft PEIR for the Project for 45 days from May 22, 2014 through July 7, 2014. Notices of Completion and Availability of the Draft PEIR were circulated to the State Clearinghouse, responsible agencies, trustee agencies, and other interested parties on May 22, 2014.

General public Notice of Availability of the Draft PEIR was also given by publication in The Press-Enterprise daily circulation newspaper on May 22, 2014. As required by Public Resources Code Section 21092.3, a copy of the public notice was posted with the Riverside County Clerk on May 22, 2014.

As provided in the public notice and in accordance with State *CEQA Guidelines* Section 21091(d), the District accepted written comments through July 7, 2014. During the public review period for the Project, the District received six comment letters from agencies and a Native American Tribe. No written comments were received subsequent to the close of the public review period.

The Response to Comments, along with the comment letters, are included in Section 2 of this Final PEIR. In accordance with the provisions of Public Resources Code Section 21092.5, the District has provided a written response to each commenting public agency no less than 10 days prior to the proposed certification date.

9.5 List of Persons, Organizations, and Agencies that Commented on the Draft PEIR

9.5.1 Comments Received During Public Comment Period

The following written comments were received during the Draft PEIR public comment period:

Agency Type	Letter	Name/Agency	Dated
Federal Agency	A	FEMA	May 28, 2014
State Agency	B	Department of Transportation	May 29, 2014
State Agency	C	Governor's Office of Planning and Research	July 8, 2014
Regional/Local Agency	D	City of Moreno Valley Public Works Department	July 3, 2014
Regional/Local Agency	E	City of Moreno Valley Planning Department	July 7, 2014
Other Interested Party	F	Soboba Band of Luiseño Indians	July 7, 2014

9.5.2 Comments Received After Close of Public Comment Period

No written comments were received after the close of the public comment period.

Section 10 – Response to Comments

10.1 Overview

Pursuant to State *CEQA Guidelines* Section 15088, the responses to comments presented in this section address specific, relevant comments on environmental issues raised in the submitted comment letters.

All of the comment letters are included in this section. Each comment letter is followed by the responses to each of its comments. Each comment letter is identified by the alphabetic letter designated in Section 9.5 of this Final PEIR, and identifying information for each commenter is provided at the beginning of the corresponding responses. Specific comments are delineated and numbered as well. Corrections and additions resulting from comments on the Draft PEIR are summarized in Section 9.3 of this Final PEIR.

Comment Letter A

RECEIVED
JUN 03 2014

RIVERSIDE COUNTY FLOOD CONTROL
AND WATER CONSERVATION DISTRICT

U.S. Department of Homeland Security
FEMA Region IX
1111 Broadway, Suite 1200
Oakland, CA. 94607-4052



FEMA

May 28, 2014

Kris Flanigan, P. E., Engineering Project Manager
Riverside County Flood Control and Water Conservation District
1995 Market Street
Riverside, California 92501

Dear Ms. Flanigan:

This is in response to your request for comments regarding the Notice of Completion and Availability Draft Programmatic Environmental Impact Report, Moreno Master Drainage Plan Revision, State Clearinghouse No. 2012041013, County of Riverside, California.

Please review the current effective countywide Flood Insurance Rate Maps (FIRMs) for the County of Riverside (Community Number 060245) and Moreno Valley (Community Number 065074), Maps revised August 28, 2008. Please note that the City of Moreno Valley, Riverside County, California is a participant in the National Flood Insurance Program (NFIP). The minimum, basic NFIP floodplain management building requirements are described in Vol. 44 Code of Federal Regulations (44 CFR), Sections 59 through 65.

A summary of these NFIP floodplain management building requirements are as follows:

- All buildings constructed within a riverine floodplain, (i.e., Flood Zones A, AO, AH, AE, and A1 through A30 as delineated on the FIRM), must be elevated so that the lowest floor is at or above the Base Flood Elevation level in accordance with the effective Flood Insurance Rate Map.
- If the area of construction is located within a Regulatory Floodway as delineated on the FIRM, any **development** must not increase base flood elevation levels. **The term development means any man-made change to improved or unimproved real estate, including but not limited to buildings, other structures, mining, dredging, filling, grading, paving, excavation or drilling operations, and storage of equipment or materials.** A hydrologic and hydraulic analysis must be performed *prior* to the start of development, and must demonstrate that the development would not cause any rise in base flood levels. No rise is permitted within regulatory floodways.

A-1

A-2

www.fema.gov

Kris Flanigan, P. E., Engineering Project Manager
Page 2
May 28, 2014

- Upon completion of any development that changes existing Special Flood Hazard Areas, the NFIP directs all participating communities to submit the appropriate hydrologic and hydraulic data to FEMA for a FIRM revision. In accordance with 44 CFR, Section 65.3, as soon as practicable, but not later than six months after such data becomes available, a community shall notify FEMA of the changes by submitting technical data for a flood map revision. To obtain copies of FEMA's Flood Map Revision Application Packages, please refer to the FEMA website at <http://www.fema.gov/business/nfip/forms.shtm>.

A-2

Please Note:

Many NFIP participating communities have adopted floodplain management building requirements which are more restrictive than the minimum federal standards described in 44 CFR. Please contact the local community's floodplain manager for more information on local floodplain management building requirements. The Moreno Valley floodplain manager can be reached by calling Ahmad Ansari, Public Works Director/City Engineer, at (951) 413-3100. The Riverside County floodplain manager can be reached by calling Michael Lara, Director, at (951) 955-2514.

A-3

If you have any questions or concerns, please do not hesitate to call Frank Mansell of the Mitigation staff at (510) 627-7191.

Sincerely,



Gregor Blackburn, CFM, Branch Chief
Floodplain Management and Insurance Branch

cc:

Ahmad Ansari, Public Works Director/City Engineer, City of Moreno Valley
Michael Lara, Director, Riverside County
Garret Tam Sing/Salomon Miranda, State of California, Department of Water Resources,
Southern District
Frank Mansell, NFIP Planner, DHS/FEMA Region IX
Alessandro Amaglio, Environmental Officer, DHS/FEMA Region IX

www.fema.gov

10.2 Response to Comment Letter A – FEMA

Response to Comment A-1:

The FIRM maps were reviewed during preparation of the Draft PEIR. Draft PEIR **Figure 5.4-3 – FEMA Mapped Flood Hazard Zones** shows the location of Moreno MDP Facilities proposed to be constructed within FEMA-mapped 100-year flood hazard areas (Draft PEIR, p. 5.4-29). The National Flood Insurance Program is discussed on page 5.4-15 of the Draft PEIR.

No environmental issues have been raised by the comment and no modification of the Draft PEIR is required

Response to Comment A-2:

The summary of the National Flood Insurance Program (NFIP) building requirements is noted. As previously noted, the NFIP is discussed on page 5.4-15 of the Draft PEIR.

No environmental issues have been raised by the comment and no modification of the Draft PEIR is required.

Response to Comment A-3:

This comment is noted. However, no environmental issues have been raised by the comment and no modification of the Draft PEIR is required.

Comment Letter B

STATE OF CALIFORNIA—BUSINESS, TRANSPORTATION AND HOUSING AGENCY

EDMUND G. BROWN Jr. Governor

DEPARTMENT OF TRANSPORTATION

DISTRICT 8
PLANNING
464 WEST 4th STREET, 6th Floor MS 725
SAN BERNARDINO, CA 92401-1400
PHONE (909) 383-4557
FAX (909) 383-5936
TTY (909) 383-6300



*Flex your power!
Be energy efficient!*

May 29, 2014

Riverside County Flood Control and Water Conservation
Kris Flangan
1995 Market Street
Riverside, CA 92501

RECEIVED
JUN 02 2014

RIVERSIDE COUNTY FLOOD CONTROL
(MS) WATER CONSERVATION DISTRICT

Moreno Master Drainage Plan SCH# 2012041013

Ms. Flangan,

We have completed our review for the Notice of Preparation (NOP) for the Moreno Master Drainage Plan Revision Draft Environmental Report (EIR). The project is located south of State Route 60 (SR-60) in the city of Moreno Valley crossing Lassalle Street and Theodore Street.

As the owner and operator of the State Highway System (SHS), it is our responsibility to coordinate and consult with local jurisdictions when proposed development may impact our facilities. As the responsible agency under the California Environmental Quality Act (CEQA), it is also our responsibility to make recommendations to offset associated impacts with the proposed project. Although the project is under the jurisdiction of the City of Moreno Valley due to the Project's potential impact to State facilities it is also subject to the policies and regulations that govern the SHS.

B-1

Please reference the Department of Transportation letter sent April 16, 2012 concerning our comments for this project.

We appreciate the opportunity to offer comments concerning this project. If you have any questions regarding this letter, please contact Talvin Dennis at (909) 383-6908 or myself at (909) 383-4557 for assistance.

Sincerely,

Mark Roberts
Acting Chief
Community Planning/IGR-CEQA

"Caltrans improves mobility across California"

Attachment to Comment Letter B

STATE OF CALIFORNIA—BUSINESS, TRANSPORTATION AND HOUSING AGENCY

EDMUND G. BROWN Jr. Governor

DEPARTMENT OF TRANSPORTATION

DISTRICT 8
PLANNING
464 WEST 4th STREET, 6th Floor MS 725
SAN BERNARDINO, CA 92401-1400
PHONE (909) 383-4557
FAX (909) 383-5936
TTY (909) 383-6300



*Flex your power!
Be energy efficient!*

April 16, 2012

Kris Flangan
Riverside County Flood Control and Water Conservation
1995 Market Street
Riverside, CA 92501

Moreno Master Drainage Plan SCH# 2012041013

Ms. Flangan,

We have completed our review for the Notice of Preparation (NOP) for the Moreno Master Drainage Plan Revision Draft Environmental Report (EIR). The project is located south of State Route 60 (SR-60) in the city of Moreno Valley crossing Lassalle Street and Theodore Street.

As the owner and operator of the State Highway System (SHS), it is our responsibility to coordinate and consult with local jurisdictions when proposed development may impact our facilities. As the responsible agency under the California Environmental Quality Act (CEQA), it is also our responsibility to make recommendations to offset associated impacts with the proposed project. Although the project is under the jurisdiction of the City of Moreno Valley due to the Project's potential impact to State facilities it is also subject to the policies and regulations that govern the SHS.

We recommend the following to be provided:

Drainage

- All tributary runoff areas, existing area drainage facilities, and proposed project drainage design should be clearly identified and analyzed in a comprehensive project drainage study. To the extent possible, the drainage study should include impacts associated with drainage facilities to be constructed.

Traffic control Plan

- A Traffic Control Plan or construction traffic impact study may be required by the developer for approval by the lead agency and Caltrans prior to construction. The plans shall be prepared in accordance with Caltrans's Manual of Traffic Controls for Construction and Maintenance Work Zones. For more information, contact the District Traffic Manager, Al Afaneh, at (909) 383-4917.

"Caltrans improves mobility across California"

Attachment to Comment Letter B

Ms. Flangan
April 16, 2012
Page 2

Permit Requirements

Any proposed alterations to existing improvements within State right-of-way may only be performed upon issuance of a valid encroachment permit and must conform to current Caltrans design standards and construction practices.

Review and approval of street, grading and drainage construction plans will be necessary prior to permit issuance. Information regarding permit application and submittal requirements may be obtained by contacting:

Office of Encroachment Permits
Department of Transportation
464 West 4th Street, 6th Floor, MS-619
San Bernardino, CA 92401-1400
(909) 383-4526

We appreciate the opportunity to offer comments concerning this project. If you have any questions regarding this letter, please contact Talvin Dennis at (909) 383-6908 or myself at (909) 383-4557 for assistance.

Sincerely,

Original signed by Daniel Kopulsky

DANIEL KOPULSKY
Office Chief
Community Planning/IGR-CEQA

"Caltrans improves mobility across California"

10.3 Response to Comment Letter B – Department of Transportation

Response to Comment B-1:

The Draft PEIR identifies the Department of Transportation’s (Caltrans’) role as a responsible agency on page 2-2.

The Caltrans letter sent April 16, 2012 (attached to this comment letter) is included in Appendix A.2 of the Draft PEIR along with all letters received in response to the Notice of Preparation. Draft PEIR **Table 4-E – Comments Received in Response to the Notice of Preparation** discloses written comments were received from Caltrans and directed the reader to Section 5.4 – Hydrology and Water Quality for a discussion of drainage issues. With regard to Caltrans’ request for a comprehensive project drainage study, this is not necessary at this time, as the proposed MDP Facilities were sized and conceptually located based on hydrology studies completed by the Riverside County Flood Control and Water Conservation District. Nonetheless, future drainage studies will be prepared if needed at the time District Facilities are proposed and the District will continue to work with Caltrans on Facilities that affect the state highway system (SHS).

The need to obtain encroachment permits and/or traffic control plans from Caltrans is identified in Section 3.6 – Required Permits and Approvals (Draft PEIR, p. 4-25).

No environmental issues have been raised by the comment. However, there is a typographical error in a **Table 4-E - Comments Received in Response to the Notice of Preparation** that references Section 3.4.1, when it should have referenced Section 3.6. Therefore, the table has been revised in the Final PEIR as follows:

Commenter	Location in Draft PEIR where Comment is Addressed
California Department of Transportation (Caltrans)	Drainage is addressed in Section 5.4 – Hydrology and Water Quality. Applicable Encroachment permits and/or traffic control plans required from Caltrans are identified in Section 3.4.1 <u>3.6</u> – Required Permits and Approvals.

This revision is only correcting a section reference and does not constitute significant new information that would require recirculation of the Draft PEIR. No other modification of the Draft PEIR is required as a result of this comment.

Comment Letter C



Edmund G. Brown Jr.
Governor

STATE OF CALIFORNIA
Governor's Office of Planning and Research
State Clearinghouse and Planning Unit



Ken Alex
Director

July 8, 2014

RECEIVED
JUL 11 2014

RIVERSIDE COUNTY FLOOD CONTROL
AND WATER CONSERVATION DISTRICT

Kris Flanigan
Riverside County Flood Control and Water Conservation
1995 Market Street
Riverside, CA 92501

Subject: Moreno Master Drainage Plan Revision
SCH#: 2012041013

Dear Kris Flanigan:

The State Clearinghouse submitted the above named Draft EIR to selected state agencies for review. The review period closed on July 7, 2014, and no state agencies submitted comments by that date. This letter acknowledges that you have complied with the State Clearinghouse review requirements for draft environmental documents, pursuant to the California Environmental Quality Act.

Please call the State Clearinghouse at (916) 445-0613 if you have any questions regarding the environmental review process. If you have a question about the above-named project, please refer to the ten-digit State Clearinghouse number when contacting this office.

Sincerely,

Scott Morgan
Director, State Clearinghouse

C-1

Attachment to Comment Letter C

**Document Details Report
 State Clearinghouse Data Base**

SCH# 2012041013
Project Title Moreno Master Drainage Plan Revision
Lead Agency Riverside County Flood Control and Water Conservation

Type EIR Draft EIR
Description The Moreno MDP Revision is a conceptual long-range planning document that projects the alignment, type, size, and estimated cost for MDP Facilities necessary to attenuate and/or contain storm flows. The Project includes the administration, construction and operation of approximately 30 miles of storm drains and channels, and a total of 82 acres of detention and debris basins. Construction would be occur in discrete phases over a number of decades. New development may be required to construct MDP Facilities or set aside right-of-way for future MDP Facilities, or otherwise provide adequate drainage facilities that would attenuate and/or contain flows projected in the Moreno MDP Revision. Even with BMPs, standard regulatory compliance, and mitigation measures, the Project may result in significant and unavoidable short-term impacts to air quality.

Lead Agency Contact

Name Kris Flanigan
Agency Riverside County Flood Control and Water Conservation
Phone 951 955-8581 **Fax**
email
Address 1995 Market Street
City Riverside **State** CA **Zip** 92501

Project Location

County Riverside
City Moreno Valley
Region
Lat / Long 33° 56' 57" N / 117° 11' 58" W
Cross Streets Moreno Beach Dr. and Alessandro Blvd
Parcel No.
Township 2S **Range** 2W **Section** 30/31 **Base** SBB&M

Proximity to:

Highways Hwy 60
Airports March Air Reserve Base
Railways
Waterways San Jacinto River/Canyon Lake/Lake Elsinore
Schools ES: Moreno, Ridge, Crest;MS: Landmark, Mountain View; Valley...
Land Use The proposed project will affect properties in portions of Moreno Valley, and portions of unincorporated Riverside County. Portions lie within an area designated by Moreno Valley as Residential (R1, R2, R3, R5, R10, R15, R20, and R5/15), Rural Residential, Hillside Residential Residential/Office, Office, Commercial, Business Park/Light Industrial, Open Space, Floodplain, and Public Facilities land use designations. Portions lie within an area designated by Riverside County as Rural Residential, Rural Mountainous, Rural Community-Very Low Density Residential, Conservation Habitat, Open Space Rural, and Open Space Recreation land use designations.

Project Issues Air Quality; Archaeologic-Historic; Biological Resources; Drainage/Absorption; Flood Plain/Flooding; Noise; Water Quality; Wetland/Riparian; Growth Inducing; Cumulative Effects

Reviewing Agencies Resources Agency; Department of Fish and Wildlife, Region 6; Office of Historic Preservation; Department of Parks and Recreation; Department of Water Resources; California Highway Patrol; Caltrans, District 8; Air Resources Board; State Water Resources Control Board, Division of Financial Assistance; Regional Water Quality Control Board, Region 8; Department of Toxic Substances Control; Native American Heritage Commission

Attachment to Comment Letter C

Document Details Report
State Clearinghouse Data Base

Date Received 05/22/2014 *Start of Review* 05/22/2014 *End of Review* 07/07/2014

10.4 Response to Comment Letter C – Governor’s Office of Planning and Research

Response to Comment C-1:

The comment acknowledges that the District has complied with the Draft PEIR review requirements pursuant to CEQA for this Project. No modification of the Draft PEIR is required.

Comment Letter D

Flanigan, Kris

From: Hoang Nguyen <hoangn@moval.org>
Sent: Thursday, July 03, 2014 8:35 AM
To: Flanigan, Kris; Chris Ormsby
Subject: RE: Moreno MDP Draft PEIR
Attachments: DOC107.pdf

Kris,

Land Dev has one correction on the working hrs on p.1-20 (see attachment).

Chris,

I may not be in the office this Monday (jury duty). If I'm not here & you have comments, pls email them directly Kris @ RCFC no later than 5:00 PM this Monday.

D-1

Hoang Nguyen
Associate Engineer
Public Works
City of Moreno Valley
p: 951.413.3216 | e: hoangn@moval.org W: www.moval.org
14177 Frederick St., Moreno Valley, CA 92553

Attachment to Comment Letter D

Section 1
Executive Summary

Riverside County Flood Control and Water Conservation District
Moreno Master Drainage Plan Revision Draft PEIR

Table 1-A – Draft PEIR Impact Summary Matrix/Mitigation Monitoring Program

Impact Category	Impact	Mitigation Measure	Implementation Timing	Responsible Party	Impact After Mitigation
Noise	Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies; and Cause a substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project	<p>MM NOI 1: To minimize the construction noise exposure and prevent construction-related noise from disturbing sensitive receivers within proximity to the Project, construction of the MDP Facilities shall be in compliance with (a) Moreno Valley Municipal Code Section 8.21.050(O), which limits grading activities to the hours of 7:00 a.m. to 6:00 p.m. Monday through Friday, and from 8:00 a.m. to 4:00 p.m. on weekends and holidays and Moreno Valley Municipal Code Section 11.80.030(D)(7), which limits other construction activities, as well as operational and maintenance activities, to the hours of 8:00 a.m. to 8:00 p.m. on weekdays and 7:00 a.m. to 8:00 p.m. on weekends and holidays. These time limits do not apply to emergency maintenance.</p> <p>MM NOI 2: To minimize noise impacts resulting from poorly tuned or improperly modified vehicles and construction equipment, all vehicles and construction equipment shall maintain equipment engines in good condition and in proper tune per manufacturer's specifications to the satisfaction of the District or Moreno Valley, as appropriate. Equipment maintenance records and equipment design specification data sheets shall be available for review upon request.</p> <p>MM NOI 3: To inform potential sensitive receivers of the pending construction of an MDP Facility or Facilities, the proponent of any MDP Facility that is not constructed as part of a private development project, shall give written notification to all property addresses, as shown on the latest Riverside County Assessors' roll within 200 feet of the construction footprint no less than 7 days prior to the start of construction. The written notification shall include a tentative construction schedule and contact information for use by the public if specific noise issues arise.</p>	Pre-construction	Contractor, and applicable Lead Agency (District or Moreno Valley or Riverside County)	Less than significant
	Exposure of persons to or generation of excessive ground-borne vibration or ground-borne noise levels	MM NOI 1 (see above)	Pre-construction	Contractor and Lead Agency (District or Moreno Valley or Riverside County)	Less than significant

10.5 Response to Comment Letter D – City of Moreno Valley Public Works Department

Response to Comment D-1:

The City of Moreno Valley identified a slight error in the Draft PEIR regarding construction start time for certain construction and maintenance activities. Therefore, pursuant to Municipal Code Section 11.80.030(D)(7), the start time for weekday construction, operational, and maintenance activities will be changed from 6:00 a.m. to 7:00 a.m. on page 5.5-11, and directly in mitigation measure **MM NOI 1**, which appears in **Table 1-A – Draft PEIR Impact Summary Matrix** on page 1-20 and on page 5.5-13 of the Draft PEIR. The measure has been updated as follows:

MM NOI 1: To minimize the construction noise exposure and prevent construction-related noise from disturbing sensitive receivers within proximity to the Project, construction of the MDP Facilities shall be in compliance with (a) Moreno Valley Municipal Code Section 8.21.050(O), which limits grading activities to the hours of 7:00 a.m. to 6:00 p.m. Monday through Friday, and from 8:00 a.m. to 4:00 p.m. on weekends and holidays and Moreno Valley Municipal Code Section 11.80.030(D)(7), which limits other construction activities, as well as operational and maintenance activities, to the hours of ~~6~~7:00 a.m. to 8:00 p.m. on weekdays and 7:00 a.m. to 8:00 p.m. on weekends and holidays. These time limits do not apply to emergency maintenance.

This minor revision to the Draft PEIR does not constitute significant new information that would require recirculation of the Draft PEIR.

Comment Letter E

Flanigan, Kris

From: Hoang Nguyen <hoangn@moval.org>
Sent: Monday, July 07, 2014 4:55 PM
To: Flanigan, Kris
Cc: Chris Ormsby
Subject: FW: Comments on Draft Program EIR Moreno Master Drainage Plan Revision (May 2014)

Kris,

FYI.

Hoang Nguyen
Associate Engineer
Public Works
City of Moreno Valley
p: 951.413.3216 | e: hoangn@moval.org W: www.moval.org
14177 Frederick St., Moreno Valley, CA 92553



From: Chris Ormsby
Sent: Monday, July 07, 2014 4:51 PM
To: Hoang Nguyen
Subject: Comments on Draft Program EIR Moreno Master Drainage Plan Revision (May 2014)

Hoang,

I just had a couple of comments below on the Draft EIR itself. However, I noted that in Jim Devlin's comment letter (March 2013) in response to the NOP he makes reference to an alternative location east of Merwin. The location that Mr. Devlin is referring to is no longer within the World Logistics site. There is a tentative tract map under review at the location.

E-1

P 1-1. Recommend adding the highlighted text. "If the PEIR is certified and the Project is approved by the Board of Supervisors, as future individual MDP Facilities are proposed, the District or any other jurisdiction having discretionary approval related to the MDP Facility (i.e., City of Moreno Valley or County of Riverside), will be required to examine each Facility on its own merits pursuant to CEQA."

E-2

In most cases, the City's mitigation for this type of measure has been to require reports to be submitted by the contractor to the City Planning Division as a way of better documenting compliance in our files, and due to limited resources to inspect documents in the field.

E-3

Comment Letter E

P 1-9 "MM Air 1: For channel and basin Facilities, during construction, ozone precursor emissions from all vehicles and construction equipment shall be controlled by maintaining equipment engines in good condition, in proper tune per manufacturers' specifications. Equipment maintenance records and equipment design specification data sheets shall be kept on site during construction. Compliance with this measure shall be subject to periodic inspections by the Lead Agency or by means of another form of documentation as approved by the Lead Agency (i.e., Moreno Valley, Riverside County, or District)"

E-3

If there are any questions regarding my comments, the consultant or Flood Control staff could contact me directly at (951) 413-3229

E-4

Chris Ormsby, AICP
Interim Planning Official

Chris Ormsby
Interim Planning Official
Community & Economic Development
City of Moreno Valley
p: 951.413.3229 | e: chriso@moval.org W: www.moval.org
14177 Frederick St., Moreno Valley, CA 92553

10.6 Response to Comment Letter E – City of Moreno Valley Planning Department

Response to Comment E-1:

The information that a tentative tract map has been submitted will be added to the discussion regarding a potential basin location suggested by Mr. Devlin.³ The second paragraph on page 7-4 of the Draft PEIR will be revised as follows:

Commenter-suggested location (iii) an area bounded on the east by Redlands Boulevard, on the west by Wilmot Street, on the south by Cactus Avenue, and on the north by Brodiaea Avenue and (iv) an area on the east side of Merwin Street at Brodiaea Avenue are infeasible alternatives because these locations will only attenuate flows from the Line F system and not the Line F-2 system. A basin at either of these locations would need to be sized to over-mitigate for the Line F-2 system, which would result in a larger, more costly basin. Additionally the Moreno Valley Planning Department commented that the property to the east of Merwin (Commenter-suggested location (iv)) is no longer within the World Logistics project site and a tentative tract map is currently under review for this location.

The amplification as to why an alternative basin location is infeasible does not constitute significant new information that would require recirculation of the Draft PEIR.

Response to Comment E-2:

To clarify that the reference to “City” is the City of Moreno Valley, the last paragraph on page 1-1 of the Draft PEIR will be revised as follows:

If the PEIR is certified and the Project is approved by the Board of Supervisors, as future individual MDP Facilities are proposed, the District or any other jurisdiction having discretionary approval related to the MDP Facility (i.e., City of Moreno Valley or County of Riverside), will be required to examine each Facility on its own merits pursuant to CEQA. Potential Facility-specific CEQA documents include an initial study (IS) leading to a negative declaration or mitigated negative declaration (MND); supplemental environmental impact report (EIR); or subsequent EIR. However, pursuant to Section 15168(c)(2) of the CEQA Guidelines, if the District or any other jurisdiction having discretionary approval related to the MDP facility finds that pursuant to Section 15162, no new effects could occur or no new mitigation measures would be required, the Lead or Responsible Agency can approve the activity as being within the scope of the Project covered by the PEIR, and no new environmental document would be required. In addition, since many of the MDP facilities may be designed and/or constructed as part

³ The basin location was suggested by Mr. Devlin in a letter dated March 21, 2013, which is included as Appendix A.3 to the Draft PEIR.

of private development projects processed by Moreno Valley, the Facility-specific analysis may be included as part of the environmental documentation and CEQA process for a development project, provided it includes adequate CEQA analysis on any related MDP Facilities.

The last paragraph on page 5.4-19 of the Draft PEIR will be revised as follows:

Chapter 8.10 Stormwater/Urban Runoff Management and Discharge Controls
MVMC Chapter 8.10 regulates discharges into the City's sewer and storm drain systems, and implements the City's requirements under the MS4 permit. Among other things, this Chapter prohibits discharges to the City's sewer and storm drain systems that contain pollutants or that would impair the operation of those systems. This Chapter gives the City of Moreno Valley enforcement authority to declare violations, apply penalties, and impose stop-work orders, monitoring requirements, and other enforcement mechanisms.

The above clarifications do not constitute significant new information that would require recirculation of the Draft PEIR.

Response to Comment E-3:

The City's typical mitigation is noted. Therefore, mitigation measure **MM Air 1**, has been clarified as requested by the City, as shown in **Table 1-A – Draft PEIR Impact Summary Matrix** on page 1-9 and again on page 5.1-35 of the Draft PEIR. The measure has been clarified as follows:

MM Air 1: For channel and basin Facilities, during construction, ozone precursor emissions from all vehicles and construction equipment shall be controlled by maintaining equipment engines in good condition, in proper tune per manufacturers' specifications. Equipment maintenance records and equipment design specification data sheets shall be kept on site during construction. Compliance with this measure shall be subject to periodic inspections by the Lead Agency or by means of another form of documentation as approved by the Lead Agency (i.e., Moreno Valley, Riverside County, or District).

The clarification of how the Lead Agency may satisfy mitigation measure **MM Air 1** does not constitute significant new information that would require recirculation of the Draft PEIR.

Comment Letter F

July 7, 2014

Attn: Kris Flanigan, P.E., Senior Engineer
Riverside County Flood Control and Water Conservation District
1995 Market Street
Riverside, CA 92501



Re: Draft Programmatic Environmental Impact Report for the Moreno Master Drainage Plan Revision (SCH No. 2012041013)

The Soboba Band of Luiseño Indians is regarded the project area as highly sensitive to our people. The project area is part of the Soboba Band of Luiseño Indians traditional use area, we are the closest Native American Tribe to the proposed project area, and as mentioned in previous consultation the project location is in close proximity to known village sites and is a shared use area between Native American tribes. The Soboba Band has significant concerns over the proposed mitigation measures for the Moreno Master Drainage Plan Revision.

F-1

- The Soboba Band of Luiseño Indians believes the mitigation measures for this project are outdated and does not consider them to be effective because the Soboba Band was not consulted with prior to the development of the "Master Agreement" that was established between RCFC and the Pechanga Band of Luiseño Indians on December 18, 2012.
- The Soboba Band responded to in a letter dated November 7, 2011 stating that this project was located in our traditional use area and that it was in fact culturally sensitive. It was at that time that the Soboba Band requested to be on site during the ground-disturbing activities. We stated that the project area was culturally sensitive, and requested consultation with the project proponents. The only other tribe who also responded to the inquiries was the Pala Band, requesting deferment to the other tribes living closer to the MDP Watershed.
- Soboba's concerns and requests were reiterated in a letter addressed to RCFC the dated April 5, 2012, when the tribe received the Notice of Preparation of a Draft Programmatic Environmental Impact Report for the Moreno Master Drainage Plan Revision. The Soboba Band requests that a Native American monitoring component be included as a mitigation measure in the Environmental Impact Report, a Treatment and Dispositions Agreement project proponent and the Soboba Band, and that meaningful consultation take place between RCFC and the tribe during a face-to-face meeting.
- The Soboba Band is currently requesting a face-to-face meeting between the Soboba Cultural Resources Department and a representative from Riverside County Flood Control Water Conservation District to discuss revising the "Master Agreement" and the proposed Cultural Resources Mitigation Measures for the Moreno Master Drainage Plan Revision. Please contact me at your earliest convenience either by email or phone in order to make arrangements.

F-2

F-3

F-4

Sincerely,

A handwritten signature in black ink, appearing to read "Joe", written over a light blue horizontal line.

Joseph Ontiveros
Soboba Cultural Resource Department
P.O. Box 487
San Jacinto, CA 92581
Phone (951) 654-5544 ext. 4137
Cell (951) 663-5279
jontiveros@soboba-nsn.gov

Attachment to Comment Letter F

April 5, 2012

Attn: Kris Flanigan, P.E., Senior Engineer
Riverside County Flood Control and Water Conservation District
1995 Market Street
Riverside, CA 92501



Re: Notice of Preparation of a Draft Programmatic Environmental Impact Report for the Moreno Master Drainage Plan Revision

The Soboba Band of Luiseño Indians appreciates your observance of Tribal Cultural Resources and their preservation in your project. The information provided to us on said project has been assessed through our Cultural Resource Department, where it was concluded that although it is outside the existing reservation, the project area does fall within the bounds of our Tribal Traditional Use Areas. This project location is in close proximity to known village sites and is a shared use area that was used in ongoing trade between the Luiseño and Cahuilla tribes. Therefore it is regarded as highly sensitive to the people of Soboba.

Soboba Band of Luiseño Indians is requesting the following:

1. To initiate a consultation with the Project Developer and Land owner.
2. The transfer of information to the Soboba Band of Luiseno Indians regarding the progress of this project should be done as soon as new developments occur.
3. Soboba Band of Luiseño Indians continues to act as a consulting tribal entity for this project.
4. Working in and around traditional use areas intensifies the possibility of encountering cultural resources during the construction/excavation phase. For this reason the Soboba Band of Luiseño Indians requests that a Native American monitoring component be included as a mitigation measure in the Environmental Impact Report. The Tribe requesting that a Treatment and Dispositions Agreement between the developer and The Soboba Band be provided to the Riverside County Flood Control and Water Conservation District prior to the issuance of a grading permit and before conducting any additional archaeological fieldwork.
5. Request that proper procedures be taken and requests of the tribe be honored (Please see the attachment)

The Soboba Band of Luiseno Indians is requesting a face-to-face meeting between the Riverside County Flood Control and Water Conservation District and the Soboba Cultural Resource Department. Please contact me at your earliest convenience either by email or phone in order to make arrangements.

Sincerely,

Joseph Ontiveros
Soboba Cultural Resource Department
P.O. Box 487
San Jacinto, CA 92581
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Attachment to Comment Letter F

Cultural Items (Artifacts). Ceremonial items and items of cultural patrimony reflect traditional religious beliefs and practices of the Soboba Band. The Developer should agree to return all Native American ceremonial items and items of cultural patrimony that may be found on the project site to the Soboba Band for appropriate treatment. In addition, the Soboba Band requests the return of all other cultural items (artifacts) that are recovered during the course of archaeological investigations. When appropriate and agreed upon in advance, the Developer's archeologist may conduct analyses of certain artifact classes if required by CEQA, Section 106 of NHPA, the mitigation measures or conditions of approval for the Project. This may include but is not limited or restricted to include shell, bone, ceramic, stone or other artifacts.

The Developer should waive any and all claims to ownership of Native American ceremonial and cultural artifacts that may be found on the Project site. Upon completion of authorized and mandatory archeological analysis, the Developer should return said artifacts to the Soboba Band within a reasonable time period agreed to by the Parties and not to exceed (30) days from the initial recovery of the items.

Treatment and Disposition of Remains.

A. The Soboba Band shall be allowed, under California Public Resources Code § 5097.98 (a), to (1) inspect the site of the discovery and (2) make determinations as to how the human remains and grave goods shall be treated and disposed of with appropriate dignity.

B. The Soboba Band, as MLD, shall complete its inspection within twenty-four (24) hours of receiving notification from either the Developer or the NAHC, as required by California Public Resources Code § 5097.98 (a). The Parties agree to discuss in good faith what constitutes "appropriate dignity" as that term is used in the applicable statutes.

C. Reburial of human remains shall be accomplished in compliance with the California Public Resources Code § 5097.98 (a) and (b). The Soboba Band, as the MLD in consultation with the Developer, shall make the final discretionary determination regarding the appropriate disposition and treatment of human remains.

D. All parties are aware that the Soboba Band may wish to rebury the human remains and associated ceremonial and cultural items (artifacts) on or near, the site of their discovery, in an area that shall not be subject to future subsurface disturbances. The Developer should accommodate on-site reburial in a location mutually agreed upon by the Parties.

E. The term "human remains" encompasses more than human bones because the Soboba Band's traditions periodically necessitated the ceremonial burning of human remains. Grave goods are those artifacts associated with any human remains. These items, and other funerary remnants and their ashes are to be treated in the same manner as human bone fragments or bones that remain intact.

Attachment to Comment Letter F

Coordination with County Coroner's Office. The Lead Agencies and the Developer should immediately contact both the Coroner and the Soboba Band in the event that any human remains are discovered during implementation of the Project. If the Coroner recognizes the human remains to be those of a Native American, or has reason to believe that they are those of a Native American, the Coroner shall ensure that notification is provided to the NAHC within twenty-four (24) hours of the determination, as required by California Health and Safety Code § 7050.5 (c).

Non-Disclosure of Location Reburials. It is understood by all parties that unless otherwise required by law, the site of any reburial of Native American human remains or cultural artifacts shall not be disclosed and shall not be governed by public disclosure requirements of the California Public Records Act. The Coroner, parties, and Lead Agencies, will be asked to withhold public disclosure information related to such reburial, pursuant to the specific exemption set forth in California Government Code § 6254 (r). Ceremonial items and items of cultural patrimony reflect traditional religious beliefs and practices of the Soboba Band. The Developer agrees to return all Native American ceremonial items and items of cultural patrimony that may be found on the project site to the Soboba Band for appropriate treatment. In addition, the Soboba Band requests the return of all other cultural items (artifacts) that are recovered during the course of archaeological investigations. Where appropriate and agreed upon in advance, Developer's archeologist may conduct analyses of certain artifact classes if required by CEQA, Section 106 of NHPA, the mitigation measures or conditions of approval for the Project. This may include but is not limited or restricted to include shell, bone, ceramic, stone or other artifacts.

10.7 Response to Comment Letter F – Soboba Band of Luiseño Indians

Response to Comment F-1:

The District is keenly sensitive to the importance of Native American cultural resources, and we routinely work closely with Registered Professional Archeologists (RPAs) and local tribes in an effort to preserve and protect these sensitive resources. Therefore, we share your concern regarding the importance of providing adequate mitigation measures.

On August 20, 2014, District staff met with Mr. Joseph Ontiveros, Director of the Soboba Band of Luiseño Indians Cultural Resource Department, to discuss the Moreno MDP and proposed mitigation measures.

On September 10, 2014, Mr. Ontiveros provided the District with a map regarding potential sensitive cultural resources. This map has been incorporated into the Final PEIR as **Figure 5.3-1 – Soboba Band of Luiseño Indians Potentially Sensitive Areas**, and will serve as a resource for the environmental analysis for future proposed projects related to the Moreno MDP Revision.

As discussed in our meeting, it is important to restate that the effectiveness of the mitigation measures proposed in the Draft PEIR is not affected by the Master Agreement between the District and the Pechanga Band of Luiseño Indians because our Master Agreement with the Pechanga Band does not cover east Moreno Valley. Furthermore, on July 23, 2014, Anna Hoover of the Pechanga Band of Luiseño Indians advised the District to notify the Soboba Band if cultural or archeological resources are discovered during construction of MDP facilities. Therefore, applicable mitigation measures have been updated accordingly.

As discussed in Section 5.3 of the Draft PEIR, the Project's impacts related to historic and archaeological resources are expected to be less than significant within or adjacent to proposed MDP Facilities. However, because the MDP is a conceptual planning document that will be implemented over many years, individual Facilities may vary from the MDP due to unforeseen circumstances such as underground utilities, new development patterns, or lack of right-of-way. Therefore, pursuant to **MM CR-1**, each MDP facility will be evaluated for potential impacts to cultural resources at the time construction is proposed. Evaluation may include subsequent CEQA analysis, and consultation with the Soboba Band of Luiseño Indians. Furthermore, **MM CR-2** and **MM CR-3** include provisions for the accidental discovery of archaeological resources and allow for tribal monitors to be present during grading, excavation, and other ground-disturbing activities, under certain circumstances.

Although the District determined that the mitigation measures set forth in the Draft PEIR would effectively reduce potential impacts to cultural resources to a less than significant level, in order to be even more cautious and more specific, the District proposes the following edits to **MM CR 1**, **MM CR 2**, and **MM CR 3**:

MM CR 1: ~~Before~~ At the project level, prior to the issuance of a grading permit or Notice to Proceed with construction of any MDP Facility, the applicable Lead Agency

~~(the District, Riverside County, or City of Moreno Valley) shall evaluate each proposed MDP Facility for potential impacts to cultural resources. for which there is a change in the location or size of disturbance area from what was evaluated in the The Lead Agency shall consider applicable data and analyses, such as the Phase I Archaeological Assessment, Moreno Master Drainage Plan Revision, City of Moreno Valley, Riverside County, California (CRM TECH, January 31, 2012), Map of Soboba Band of Luiseño Indians Potentially Sensitive Areas dated September 10, 2014, the City of Moreno Valley General Plan, and other relevant record searches, technical studies, and evidence provided by local Tribes. If needed, the Lead Agency shall require additional CEQA analysis to evaluate potential impacts to cultural resources. The District, Riverside County, or Moreno Valley Public Works Department shall require the proponent of such MDP Facility to prepare or cause to be prepared a Facility-specific assessment of the potential for archaeological and cultural resources in order to determine the presence or extent of any such resources and evaluate the significance of such resources (if present). This assessment shall include, at minimum a Native American Heritage Commission Sacred Lands File search, a records search at the Eastern Information Center at the University of California Riverside, a walkover survey, and preparation of a written report containing the results of the assessment. The archaeological evaluations shall be completed prior to the commencement of any ground disturbing activities.~~

MM CR 2: Should any cultural and/or archaeological resources be discovered during construction of any proposed MDP Facility, construction activities in the vicinity of the discovery shall immediately halt and construction shall be moved to other parts of the subject MDP Facility footprint. A qualified archaeologist shall be retained by the proponent (or designee) of such MDP Facility to determine the significance of the resource(s). If the find is determined to be a historical or unique archaeological resource, as defined in Section 15064.5 of the California Code of Regulations (State CEQA Guidelines), avoidance or other appropriate measures as recommended by the archaeologist shall be implemented. Site records or site record updates (as appropriate) shall be prepared and submitted to the Eastern Information Center as a permanent record of the discovery. Treatment and disposition of any discoveries will be determined on a case-by-case basis, in consultation with the Soboba Band of Luiseño Indians.

MM CR 3: If the Facility-specific assessment required by **MM CR 1** determines there is a moderate to high potential for archaeological and/or cultural resources to occur along the alignment or area of disturbance, then prior to the issuance of a ~~building~~ grading permit, or Notice to Proceed with ~~or~~ construction of that proposed MDP Facility, the proponent for that Facility shall notify ~~local Native American tribes~~ the Soboba Band of Luiseño Indians to discuss if a monitor is needed to oversee excavation and/or ground disturbing construction activities. With written permission from the Lead Agency (i.e., District, City of Moreno Valley, or Riverside County), tribal monitors may be allowed to monitor, at such tribe's sole cost and expense, grading, excavation, and ground

disturbing activities associated with that MDP Facility, including further surveys. Any costs associated with the tribal monitoring shall be the responsibility of the monitoring Tribe, unless an executed agreement between the Tribe and project proponent provides other payment arrangements.

No new environmental issues have been raised by the comment; however **MM CR 1**, **MM CR 2**, and **MM CR 3** will be amended in the MMRP and on applicable pages of the EIR as shown above.

Response to Comment F-2:

The Pechanga Band of Luiseño Indians has deferred to the Soboba Band of Luiseño Indians. Therefore, the Soboba Band of Luiseño Indians is considered the local Tribe and will be notified pursuant to applicable laws and the proposed mitigation measures shown above in *Response to Comment F-1*.

On page 5.3-10 of the Draft PEIR, the District discloses receipt of the Soboba Band letter dated November 7, 2011.

No new environmental issues have been raised by the comment and no modification of the Draft PEIR is required, other than the mitigation measure updates previously identified in *Response to Comment F-1*.

Response to Comment F-3:

As stated previously in *Response to Comment F-1*, on August 20, 2014, District staff met with Joseph Ontiveros, Director of the Soboba Band of Luiseño Indians Cultural Resource Department, to discuss the Moreno MDP and proposed mitigation measures.

The District has modified the cultural resources mitigation measures based on discussion during our meeting. Please see *Response to Comment F-1* and *Response to Comment F-2* for more in this regard.

The Soboba letter dated April 5, 2012 that was attached to the Draft PEIR comment letter is included in Appendix A.2 of the Draft PEIR with all letters received in response to the Notice of Preparation. Draft PEIR **Table 4-E – Comments Received in Response to the Notice of Preparation** discloses that written comments were received from the Soboba Band and directed the reader to Section 5.3 – Cultural Resources.

No new environmental issues have been raised by the comment and no modification of the Draft PEIR is required, other than the mitigation measure updates previously identified in *Response to Comment F-1*.

Response to Comment F-4:

As stated previously, the Pechanga Band of Luiseño Indians advised the District to notify the Soboba Band if cultural or archeological resources are discovered during construction of MDP facilities.

Furthermore, District staff met with Mr. Joseph Ontiveros, Director of the Soboba Band of Luiseño Indians Cultural Resource Department on August 20, 2014 to discuss the Moreno MDP and proposed mitigation measures.

During that meeting we concurred that the Master Agreement with the Pechanga Band of Luiseño Indians is not applicable to the Moreno MDP and that Soboba Band of Luiseño Indians are considered the “local Tribe” for the project area.

The District has modified the cultural resources mitigation measures based on discussion during our meeting. Please see *Response to Comment F-1* and *Response to Comment F-2* for more in this regard.

No new environmental issues have been raised by the comment and no modification of the Draft PEIR is required, other than the mitigation measure updates previously identified in *Response to Comment F-1*.

Section 11 – Mitigation Monitoring and Reporting Program

CEQA requires the adoption of feasible mitigation measures to reduce the severity and magnitude of significant environmental impacts associated with project development. The Project’s Draft PEIR includes mitigation measures to reduce the potential environmental effects of the Project. CEQA also requires reporting on, and monitoring of, mitigation measures adopted as part of the environmental review process (Public Resources Code Section 21081.6). This mitigation monitoring and reporting program (MMRP) is designed to aid the District in its implementation and monitoring of measures adopted from the Project.

Pursuant to State *CEQA Guidelines* Section 15097, a written monitoring and reporting program has been compiled to verify implementation of adopted mitigation measures. “Monitoring” refers to the ongoing or periodic process of Project oversight provided by the entity or entities identified in the column titled “Implementation Responsibility” in **Table 11-A** on the following page. “Reporting” refers to written compliance review that will be presented to the decision-making body or authorized staff person identified in the table below. A report can be required at various stages throughout the Project implementation or upon completion of the mitigation measure. The following table provides the required information which includes identification of the potential impact, various mitigation measures, applicable actions, entities responsible for implementation, and implementation timing for each mitigation measure identified.

The following list clarifies the meaning of each column in the following table:

Potential Impact	Identifies a potentially affected resource/environmental condition
Mitigation Measure	Those measures that will be implemented to minimize potential significant environmental impact.
Action	What needs to be done to implement the mitigation measure
Implementation Responsibility	The party or parties responsible for implementing the mitigation measure
Governing Agency	The government entity responsible issuing a permit or otherwise responsible for enforcement associated with a mitigation measure
Implementation Timing	The phase of the Project in which implementation and compliance will be monitored

Table 11-A – Mitigation Monitoring and Reporting Program

Potential Impact	Mitigation Measure	Action(s)	Implementation Responsibility	Governing Agency	Timing
AIR QUALITY/GREENHOUSE GAS EMISSIONS					
IMPACT AIR 1: <i>Violate any air quality standard or contribute substantially to an existing or projected air quality violation.</i>	MM AIR 1: For channel and basin Facilities, during construction, ozone precursor emissions from all vehicles and construction equipment shall be controlled by maintaining equipment engines in good condition, in proper tune per manufacturers’ specifications. Equipment maintenance records and equipment design specification data sheets shall be kept on site during construction. Compliance with this measure shall be subject to periodic inspections by the Lead Agency or by means of another form of documentation as approved by the Lead Agency (i.e., Moreno Valley, Riverside County, or District).	Ensure the construction contractor maintains construction equipment in proper tune per manufacturers’ specifications. Periodically check maintenance records and design specification data.	Construction Superintendent and the Applicable Lead Agency (e.g., District, City of Moreno Valley, or Riverside County)	South Coast Air Quality Management District	During construction of any MDP Facility
IMPACT AIR 1: <i>(Continued)</i>	MM AIR 2: For channel and basin Facilities, to reduce construction vehicle (truck) idling while waiting to enter/exit the site, prior to issuance of grading permits, the contractor shall submit a traffic control plan that will describe in detail, safe detours to prevent traffic congestion to the best of the project’s ability, and provide temporary traffic control measures during construction activities that will ensure smooth traffic flows. Pursuant to CCR Title 13 §2449(d)(3), construction equipment and truck idling times shall be prohibited in excess of five minutes on site. To reduce traffic congestion, and therefore NO _x , the plan shall include, as necessary, appropriate, and practicable, the following: dedicated turn lanes for movement of construction trucks and equipment on and off site, scheduling of construction activities that affect traffic flow on the arterial system to off-peak hours, rerouting of construction trucks away from congested streets or sensitive receptors, and/or signal synchronization to improve traffic flow. This measure applies to all projects, unless the Lead Agency determines that a traffic control plan is not warranted or feasible due to no impact on local roadways.	Prepare and submit of a traffic control plan unless the applicable Lead Agency determines one is not needed for a specific MDP Facility.	Construction Superintendent and the Applicable Lead Agency (e.g., District, City of Moreno Valley, or Riverside County)	South Coast Air Quality Management District	Preparation of traffic control plan, if needed, prior to construction. Implementation of traffic control plan during construction.

Potential Impact	Mitigation Measure	Action(s)	Implementation Responsibility	Governing Agency	Timing
IMPACT AIR 1: <i>(Continued)</i>	MM AIR 3: For channel and basin Facilities, to minimize impacts related to particulate matter (PM-10 and PM-2.5) generation from construction activities, consistent with SCAQMD Rule 403, it is required that fugitive dust generated by grading and construction activities be kept to a minimum with a goal of retaining dust on the site. The contractor shall be required to comply with the applicable provisions of SCAQMD Rule 403 and implement appropriate fugitive dust control measures that may include watering, stabilized construction access to reduce tracking of mud or dirt onto public roads covering trucks hauling loose materials off-site, and street sweeping.	Ensure construction contractors comply with South Coast Air Quality Management District Rule 403	Construction Superintendent and the Applicable Lead Agency (e.g., District, City of Moreno Valley, or Riverside County)	South Coast Air Quality Management District	During construction of each MDP channel and basin.
IMPACT AIR 1: <i>(Continued)</i>	MM AIR 4: For channel and basin Facilities, to reduce construction vehicle emissions contractor specification packages for Facility construction phases shall require construction equipment to meet EPA standards according to the following, unless a Facility (or Facilities)-specific air quality analysis is conducted at the time are actually designed and proposed for construction that determines impacts would be less than significant by adhering to the most current federal, state and local (e.g., SCAQMD) regulations, and the District’s standard regulatory practices: <ul style="list-style-type: none"> The contracting company’s fleet of off-road diesel-powered construction equipment greater than 100 horsepower (HP) shall meet Tier 3 off-road emissions standards or better. Any emissions control device used by the contractor shall achieve Level 3 emissions reductions of no less than 85 percent for particulate matter, as specified by CARB regulations. A copy of the fleet’s tier compliance documentation, and CARB or AQMD operating permit shall be available to the Lead Agency for such Facility (i.e., Moreno Valley, Riverside County, or District) at the time of mobilization of each applicable unit of equipment. 	Verify that all off-road diesel powered equipment greater than 100 HP. used for construction of channel and basin Facilities shall meet or exceed Tier 3 off-road emissions standards, OR Verify a Facility or Facilities specific air quality analysis has been completed and all impacts would be less than significant through adherence to current regulations and the District’s standard regulatory practices.	Construction Superintendent and the Applicable Lead Agency (e.g., District, City of Moreno Valley, or Riverside County)	South Coast Air Quality Management District	Prior to construction of each channel and basin Facility
IMPACT AIR 2: <i>Exposure of sensitive receptors to substantial pollutant concentrations.</i>	MM AIR 1 through MM AIR 4 (see above)	See above	See above	See above	See above

Potential Impact	Mitigation Measure	Action(s)	Implementation Responsibility	Governing Agency	Timing
IMPACT AIR 3: <i>Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment.</i>	MM AIR 1 through MM AIR 4 (see above)	See above	See above	See above	See above
BIOLOGICAL RESOURCES					
IMPACT BIO 1: <i>Have an adverse effect on sensitive or special-status species.</i>	<p>MM BIO 1: Prior to construction of any individual MDP Facility, a Facility-specific general biological resources assessment shall be conducted by a qualified biologist.</p> <p>The general biological resource assessments shall include project location, project description, regulatory context, methods for field surveys including weather, dates, and time of surveys, an identification of: sensitive plant or animal species that occur or may occur on site, other protected natural resources including sensitive vegetation communities, streams, rivers, vernal pools, and wetlands.</p> <p>The assessments shall include recommendations for subsequent surveys and mitigation measures, if needed.</p> <p>Since the Project is located within the Western Riverside County MSHCP Plan Area, the general biological assessments shall also include a MSHCP Consistency Analysis and Findings pursuant to Sections 6.1.2, 6.1.3, 6.1.4, and 6.3.2 of the MSHCP.</p> <p>For MDP Facilities located within a Criteria Cell, the assessments may be included as part of the Joint Project Review application.</p> <p>If an MDP Facility is being constructed as part of a private development project, the general biological resource assessment prepared for the development project may be utilized, at the discretion of Moreno Valley and the District, in lieu of preparing a separate document specifically for the MDP Facility.</p>	Conduct Facility-specific general biological resources assessments, OR utilize a general biological resource assessment prepared for a development project that includes an MDP Facility	Applicable Lead Agency (e.g., District, City of Moreno Valley, or Riverside County)	Western Riverside County Regional Conservation Authority (RCA) CDFW	Prior to construction of any MDP Facility

Potential Impact	Mitigation Measure	Action(s)	Implementation Responsibility	Governing Agency	Timing
<p>IMPACT BIO 1: (Continued)</p>	<p>MM BIO 2: In order to avoid impacts to burrowing owls and to comply with the MSHCP, burrowing owl habitat assessments for individual MDP Facilities will be conducted by a qualified biologist following the MSHCP Burrowing Owl Survey Instructions. The burrowing owl habitat assessment may be conducted as part of the general biological resources assessment in MM BIO 1.</p> <p>If the result of the habitat assessment indicates that suitable habitat is present, including suitable burrows, focused burrowing owl surveys shall be conducted for those areas with suitable habitat pursuant to Step II, Part B of the MSHCP Survey Instructions.</p> <p>If owls are found in the impact area of an MDP Facility, Species Objective 5 from the MSHCP shall be implemented. If avoidance is not feasible, then individual projects will require the approval of a Determination of Biologically Equivalent or Superior Preservation (DBESP) pursuant to the requirements of Section 6.3.2 of the MSHCP including appropriate mitigation, i.e., on-site or off-site enhancement, restoration, establishment (creation), preservation, relocation and/or payment into habitat mitigation banks or in lieu fee programs, or a combination of one or more of these options.</p>	<p>If suitable habitat is present, conduct Facility-specific burrowing owl habitat assessments and focused burrowing owl surveys.</p> <p>Prepare and obtain approval of a DBESP if avoidance of burrowing owl is not feasible.</p>	<p>Applicable Lead Agency (e.g., District, City of Moreno Valley, or Riverside County)</p>	<p>RCA, CDFW, and USFWS, if a DBESP is required.</p>	<p>Prior to construction of any MDP Facility</p>
<p>IMPACT BIO 1: (Continued)</p>	<p>MM BIO 3: All future MDP facilities within the mapped survey area for Burrowing owls shall have a qualified biologist conduct a pre-construction survey for resident burrowing owls within 30 days prior to commencement of grading and construction activities.</p> <p>If ground-disturbing activities in these areas are delayed or suspended for more than 30 days after the pre-construction survey, the area shall be resurveyed for owls.</p> <p>Take of active nests shall be avoided.</p> <p>The pre-construction survey and any relocation activity will be conducted following accepted protocols and in coordination with the Regional Conservation Authority (RCA), California Department of Fish and Wildlife (CDFW), and U.S. Fish and Wildlife Service (USFWS).</p>	<p>Within the mapped survey area for burrowing owls, conduct pre-construction burrowing owl survey for MDP Facilities.</p> <p>If owls are determined to be present, prepare and obtain approval of a DBESP.</p>	<p>Construction Superintendent and the Applicable Lead Agency (e.g., District, City of Moreno Valley, or Riverside County)</p>	<p>RCA, CDFW, and USFWS, if relocation is required;</p>	<p>Within 30 days prior to construction of each MDP Facility within the survey area; and repeated if ground disturbance is delayed more than 30 days after the original survey.</p>

Potential Impact	Mitigation Measure	Action(s)	Implementation Responsibility	Governing Agency	Timing
<p>IMPACT BIO 1: (Continued)</p>	<p>MM BIO 4: Construction of each future MDP Facility shall be compliant with Section 6.1.2 of the MSHCP.</p> <p>In conjunction with a delineation of jurisdictional waters (see MM BIO 8), MSHCP riparian/riverine areas and vernal pools will be mapped for individual projects. This mapping may be conducted as part of the general biological resources assessment in MM BIO 1.</p> <p>For areas not excluded as artificially created, the MSHCP requires 100 percent avoidance of riparian/riverine areas. If feasible, individual Facilities will avoid all MSHCP riparian/riverine areas and vernal pools mapped within such Facilities' footprint.</p> <p>If avoidance is not feasible, then individual MDP Facilities will require the approval of a DBESP including appropriate mitigation, i.e., on-site or off-site enhancement, restoration, establishment (creation), preservation, payment into habitat mitigation banks or in lieu fee programs, or a combination of one or more of these options, to offset the loss of functions and values as they pertain to the MSHCP.</p>	<p>Map MSHCP riparian/riverine areas and vernal pools for individual MDP Facilities.</p> <p>If 100 percent avoidance is not feasible, prepare and obtain approval of a DBESP.</p>	<p>Applicable Lead Agency (e.g., District, City of Moreno Valley, or Riverside County)</p>	<p>RCA, CDFW, and USFWS, if a DBESP is required.</p>	<p>Prior to construction of any MDP Facility.</p>
<p>IMPACT BIO 1: (Continued)</p>	<p>MM BIO 5: Within areas of suitable riparian habitat, a qualified biologist shall conduct protocol presence/absence surveys for the least Bell's vireo following USFWS protocols.</p> <p>If least Bell's vireos are detected, then 90 percent of the occupied portions of the property that provide for long-term conservation value for the vireo shall be conserved in a manner consistent with conservation of the vireo, if feasible.</p> <p>If conservation is infeasible, then the loss of habitat must be mitigated for and approved through DBESP analyses, which must be submitted to the USFWS and CDFW for a 60-day review period.</p>	<p>For MDP Facilities with areas of suitable riparian habitat conduct surveys for the least Bell's vireo.</p> <p>If avoidance of 90 percent of the occupied portions of the Facility footprint that is not feasible, prepare and obtain approval of a DBESP.</p>	<p>Applicable Lead Agency (e.g., District, City of Moreno Valley, or Riverside County)</p>	<p>RCA, CDFW, and USFWS, if a DBESP is required.</p>	<p>Prior to construction of any MDP Facility</p>

Potential Impact	Mitigation Measure	Action(s)	Implementation Responsibility	Governing Agency	Timing
<p>IMPACT BIO 1: (Continued)</p>	<p>MM BIO 6: A qualified biologist will assess individual project sites for habitat with the potential to support listed fairy shrimp, defined as vernal pools, stock ponds, ephemeral ponds, or other human-modified depressions. This assessment may be conducted as part of the general biological resources assessment in MM BIO 1.</p> <p>If potentially suitable habitat is identified, a qualified biologist will conduct presence/absence surveys for listed fairy shrimp following accepted protocols.</p> <p>For areas not excluded as artificially created, the MSHCP requires 100 percent avoidance of vernal pools and listed fairy shrimp habitat.</p> <p>If listed fairy shrimp are detected and avoidance is not feasible, then (1) long-term conservation shall be implemented pursuant to Appendix E of the MSHCP if feasible; or (2) the loss of habitat must be mitigated for and approved through DBESP analyses, which must be submitted to the USFWS and CDFW for a 60-day review period.</p>	<p>Assess MDP Facilities footprints for listed fairy shrimp habitat.</p> <p>For MDP Facilities containing habitat with the potential to support listed fairy shrimp.</p> <p>If avoidance of 100 percent of such habitat is not feasible, prepare and obtain approval of a DBESP.</p>	<p>Applicable Lead Agency (District, City of Moreno Valley, or Riverside County)</p>	<p>RCA, CDFW, and USFWS, if a DBESP is required.</p>	<p>Prior to construction of any MDP Facility</p>
<p>IMPACT BIO 1: (Continued)</p>	<p>MM BIO 7: A qualified biologist will conduct a habitat assessment for individual projects located within the MSHCP Los Angeles pocket mouse survey area. This assessment may be conducted as part of the general biological resources assessment in MM BIO 1.</p> <p>If suitable habitat is present, the biologist will conduct a presence/absence trapping study.</p> <p>If a Los Angeles pocket mouse (LAPM) is detected, then 90 percent of those portions of the Facility footprint that provide for long-term conservation value for LAPM shall be avoided until it is demonstrated that the MSHCP conservation goals for LAPM have been met.</p> <p>If avoidance is not feasible, the loss of habitat must be mitigated for and approved through a Determination of Biologically Equivalent or Superior Preservation (DBESP) pursuant to the requirements of Section 6.3.2 of the MSHCP including appropriate mitigation, i.e., on-site or off-site enhancement, restoration, establishment (creation), preservation, relocation and/or payment into habitat mitigation banks or in lieu fee programs, or a combination of one or more of these options. DBESP analyses must be submitted to the USFWS and CDFW for a 60-day review period.</p>	<p>Assess MDP Facilities' footprints within the Los Angeles pocket mouse (LAPM) survey area.</p> <p>For MDP Facilities with areas of suitable habitat, conduct surveys for the LAPM, if avoidance of 90 percent of the portions of the Facility footprint that provide long term conservation value is not feasible, prepare and obtain approval of a DBESP</p>	<p>Applicable Lead Agency (District, City of Moreno Valley, or Riverside County)</p>	<p>RCA, CDFW, and USFWS (If a DBESP is required.)</p>	<p>Prior to construction of any MDP Facility</p>

Potential Impact	Mitigation Measure	Action(s)	Implementation Responsibility	Governing Agency	Timing
IMPACT BIO 2: <i>Adversely Affect Sensitive Vegetation Communities Including Riparian Habitat</i>	<p>MM BIO 4: Construction of each future MDP Facility shall be compliant with Section 6.1.2 of the MSHCP.</p> <p>In conjunction with a delineation of jurisdictional waters (see MM BIO 8), MSHCP riparian/riverine areas and vernal pools will be mapped for individual projects. This mapping may be conducted as part of the general biological resources assessment in MM BIO 1.</p> <p>For areas not excluded as artificially created, the MSHCP requires 100 percent avoidance of riparian/riverine areas. If feasible, individual Facilities will avoid all MSHCP riparian/riverine areas and vernal pools mapped within such Facilities' footprint.</p> <p>If avoidance is not feasible, then individual MDP Facilities will require the approval of a DBESP including appropriate mitigation, i.e., on-site or off-site enhancement, restoration, establishment (creation), preservation, payment into habitat mitigation banks or in lieu fee programs, or a combination of one or more of these options, to offset the loss of functions and values as they pertain to the MSHCP.</p>	<p>Map MSHCP riparian/riverine areas and vernal pools for individual MDP Facilities.</p> <p>If 100 percent avoidance is not feasible, prepare and obtain approval of a DBESP.</p>	Applicable Lead Agency (e.g., District, City of Moreno Valley, or Riverside County)	RCA, CDFW, and USFWS (If a DBESP is required.)	Prior to construction of any MDP Facility.
IMPACT BIO 2: <i>(Continued)</i>	<p>MM BIO 8: Prior to construction, individual projects shall obtain the necessary authorizations from the regulatory agencies for proposed impacts to jurisdictional waters.</p> <p>Project-specific delineations may be required to determine the limits of the U.S. Army Corps of Engineers (ACOE), Regional Water Quality Control Board (RWQCB), and California Department of Fish and Wildlife (CDFW) jurisdiction.</p> <p>These delineations may be conducted as part of the general biological resources assessment in MM BIO 1. Impacts to jurisdictional waters will require authorization by the corresponding regulatory agency.</p> <p>Authorizations may include, but are not limited to, a Section 404 permit from the ACOE, a Section 401 Water Quality Certification from the RWQCB, and a Section 1602 Streambed Alteration Agreement from CDFW.</p> <p>Project-specific impacts to jurisdictional waters shall be mitigated at the Facility level through the permitting process in a manner approved by the ACOE, CDFW, and the RWQCB, where applicable.</p>	For MDP Facilities that will affect jurisdictional waters, prepare Facility-specific jurisdictional delineations and obtain regulatory permits if necessary	Applicable Lead Agency (District, City of Moreno Valley, or Riverside County)	ACOE, RWQCB, and CDFW (if permits are required)	Prior to construction of any MDP Facility

Potential Impact	Mitigation Measure	Action(s)	Implementation Responsibility	Governing Agency	Timing
<p>IMPACT BIO 3: <i>Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites</i></p>	<p>MM BIO 9: In order to comply with the MBTA and/or California Fish and Game Code, site-preparation activities (removal of trees and vegetation) shall be avoided, to the greatest extent possible, during the native and migratory bird species nesting season (generally February 1 through August 31).</p> <p>If vegetation must be removed during the nesting season, a qualified biologist shall conduct a nesting bird survey of potentially suitable nesting vegetation prior to disturbance.</p> <p>Surveys shall be conducted no more than thirty (30) days prior to scheduled removals, and repeated if necessary.</p> <p>If active nests are identified, the biologist will recommend buffers around the vegetation containing the active nests. The vegetation containing the active nest shall not be removed, and no grading shall occur within the established buffer, until a qualified biologist has determined that the nest is no longer active (i.e., the juveniles are surviving independent from the nest).</p> <p>If clearing is not conducted within thirty (30) days of a negative survey, the nesting survey must be repeated to confirm the absence of nesting birds.</p>	<p>Pre-construction nesting bird survey</p>	<p>Construction Superintendent and the Applicable Lead Agency (District, City of Moreno Valley, or Riverside County)</p>	<p>CDFW</p>	<p>Prior to any vegetation removal between February 1 and August 31</p>
<p>IMPACT BIO 4: <i>Conflict with Adopted Habitat Conservation plan, Natural Community Plan, or Other Approved Conservation Plan.</i></p>	<p>MM BIO 1 through MM BIO 8 (see above)</p>	<p>See above</p>	<p>See above</p>	<p>See above</p>	<p>See above</p>

Potential Impact	Mitigation Measure	Action(s)	Implementation Responsibility	Governing Agency	Timing
CULTURAL RESOURCES					
<p>IMPACT CR 1: <i>Create a substantial adverse change in the significance of an historical or archaeological resource as defined in Section 15064.5.</i></p>	<p>MM CR 1: At the project level, prior to the issuance of a grading permit or Notice to Proceed with construction of any MDP Facility, the applicable Lead Agency (the District, Riverside County, or City of Moreno Valley) shall evaluate each proposed MDP Facility for potential impacts to cultural resources.</p> <p>The Lead Agency shall consider applicable data and analysis, such as the <i>Phase I Archaeological Assessment, Moreno Master Drainage Plan Revision, City of Moreno Valley, Riverside County, California</i> (CRM TECH, January 31, 2012), <i>Map of Soboba Band of Luiseño Indians Potentially Sensitive Areas</i> dated September 10, 2014, the City of Moreno Valley General Plan, and other relevant record searches, technical studies, and evidence provided by local Tribes.</p> <p>If needed, the Lead Agency shall require additional CEQA analysis to evaluate potential impacts to cultural resources.</p>	<p>Ensure that each MDP Facility has been evaluated for potential impacts to cultural resources.</p> <p>Conduct additional CEQA-level cultural resources analysis, if necessary.</p>	<p>Applicable Lead Agency (District, City of Moreno Valley, or Riverside County)</p>	<p>NAHC</p>	<p>Prior to issuance of a grading permit or Notice to Proceed with construction for each MDP Facility</p>

Potential Impact	Mitigation Measure	Action(s)	Implementation Responsibility	Governing Agency	Timing
<p>IMPACT CR 1: (Continued)</p>	<p>MM CR 2: Should any cultural and/or archaeological resources be discovered during construction of any proposed MDP Facility, construction activities in the vicinity of the discovery shall immediately halt and construction shall be moved to other parts of the subject MDP Facility footprint.</p> <p>A qualified archaeologist shall be retained by the proponent (or designee) of such MDP Facility to determine the significance of the resource(s).</p> <p>If the find is determined to be a historical or unique archaeological resource, as defined in Section 15064.5 of the California Code of Regulations (State <i>CEQA Guidelines</i>), avoidance or other appropriate measures as recommended by the archaeologist shall be implemented.</p> <p>Any artifacts collected or recovered shall be cleaned, identified, catalogued, analyzed, and prepared for curation at an appropriate repository with permanent retrievable storage to allow for additional research in the future.</p> <p>Site records or site record updates (as appropriate) shall be prepared and submitted to the Eastern Information Center as a permanent record of the discovery.</p> <p>Treatment and disposition of any discoveries will be determined on a case-by-case basis, in consultation with the Soboba Band of Luiseño Indians.</p>	<p>Excavation activities will cease if potential Archaeological resources are encountered.</p> <p>A qualified archaeologist will be retained to evaluate the resources.</p> <p>Ensure consultation with the Soboba Band of Luiseño Indians occurs if any resources are discovered.</p>	<p>Proponent of each MDP Facility (District, City of Moreno Valley, Riverside County, or private developer) and Soboba Band of Luiseño Indians</p>	<p>NAHC</p>	<p>Prior to issuance of a grading permit or Notice to Proceed with construction for each MDP Facility</p>

Potential Impact	Mitigation Measure	Action(s)	Implementation Responsibility	Governing Agency	Timing
<p>IMPACT CR 1: <i>(Continued)</i></p>	<p>MM CR 3: If the Facility-specific assessment required by <i>MM CR 1</i> determines there is a moderate to high potential for archaeological and/or cultural resources to occur along the alignment or area of disturbance, then prior to the issuance of a grading permit, or Notice to Proceed with construction of that proposed MDP Facility, the proponent for that Facility shall notify the Soboba Band of Luiseño Indians to discuss if a monitor is needed to oversee excavation and/or ground disturbing construction activities.</p> <p>With written permission from the Lead Agency (i.e., District, City of Moreno Valley, or Riverside County), tribal monitors may be allowed to monitor grading, excavation, and ground disturbing activities associated with that MDP Facility, including further surveys.</p> <p>Any costs associated with the tribal monitoring shall be the responsibility of the monitoring Tribe, unless an executed agreement between the Tribe and project proponent provides other payment arrangements.</p>	<p>Ensure that notification and coordination with the Soboba Band of Luiseño Indians has occurred</p>	<p>Proponent of each MDP Facility (District, City of Moreno Valley, Riverside County, or private developer) and Soboba Band of Luiseño Indians</p>	<p>NAHC</p>	<p>Prior to issuance of a grading permit or Notice to Proceed with construction for each MDP Facility</p>
<p>IMPACT CR 2: <i>Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature</i></p>	<p>MM CR 4: Before the issuance of a Notice to Proceed with construction of any proposed MDP Facility, the proponent of the specific MDP Facility shall either:</p> <ul style="list-style-type: none"> a) Establish to the satisfaction of the Lead Agency for the specific MDP Facility (i.e., the District, City of Moreno Valley, or Riverside County), that no excavation or earth-moving activities shall take place within soils that are identified as Pleistocene-age or older alluvium; OR b) Retain the services of a qualified paleontologist to review construction and grading plans and develop a paleontological monitoring plan, if necessary. Any monitoring shall be restricted to undisturbed older alluvium, which might be present below the surface. To avoid construction delays, the monitor shall be prepared to quickly salvage fossils, as they are unearthed. The monitor shall remove samples of sediments that are likely to contain the remains of small fossil invertebrates and vertebrates. The monitor shall have the authority to temporarily halt or divert grading equipment to allow for the removal of abundant or large specimens. If the paleontologist determines that monitoring is not necessary, the paleontologist shall prepare a memo documenting such to the satisfaction of the Lead Agency. 	<p>Ensure that a qualified paleontologist has reviewed plans and developed a paleontological monitoring plan if excavation or earth moving activities will take place within Pleistocene-age or older alluvium.</p> <p>Ensure monitoring, if needed, occurs.</p> <p>Excavation activities will cease if needed to allow for the removal of abundant or large specimens.</p>	<p>Proponent of each MDP Facility (District, City of Moreno Valley, Riverside County, or private developer)</p>	<p>Lead Agency</p>	<p>Prior to construction</p>

Potential Impact	Mitigation Measure	Action(s)	Implementation Responsibility	Governing Agency	Timing
IMPACT CR 2: <i>(Continued)</i>	MM CR 5: A qualified paleontologist shall be retained to evaluate any recovered paleontological specimens. If the qualified paleontologist deems recovered resources as rare, substantial, or otherwise unique, the resources shall be prepared and stabilized for formal identification and permanent preservation.	Ensure a qualified paleontologist is retained to evaluate any recovered specimens.	Applicable Lead Agency (District, City of Moreno Valley, or Riverside County)	Lead Agency	During excavation activities
IMPACT CR 2: <i>(Continued)</i>	MM CR 6: Identification and curation of recovered paleontological specimens into an established accredited museum repository with permanent retrievable paleontological storage shall be required for recovered resources identified by the by the qualified paleontologist (retained via MM CR 5) as rare, substantial, or otherwise unique.	Ensure any recovered rare, substantial, or otherwise unique paleontological specimens are identified and curated.	Applicable Lead Agency (District, City of Moreno Valley, or Riverside County)	Lead Agency	During excavation activities
IMPACT CR 2: <i>(Continued)</i>	MM CR 7: Preparation of a report of findings with an appended itemized inventory of paleontological specimens shall be required. The submittal of the report to the applicable Lead Agency (i.e., District, Moreno Valley, Riverside County) and the curation of the specimens identified by the qualified paleontologist (retained via MM CR 5) as rare, substantial, or otherwise unique into an established, accredited museum repository would signify the completion of the mitigation program.	Ensure preparation and submittal of a report of any recovered rare, substantial, or otherwise unique paleontological specimens.	Applicable Lead Agency (District, City of Moreno Valley, or Riverside County)	Lead Agency	During excavation activities
HYDROLOGY AND WATER QUALITY					
IMPACT HYD 1: <i>Violate any water quality standards or waste discharge requirements</i>	MM HYD 1: Prior to the construction of any Moreno MDP Facility that does not require preparation of a site-specific SWPPP, an erosion control plan shall be prepared that identifies erosion control BMPs, such as soils binders, mulching, permanent seeding, sodding, or other BMPs which will provide adequate protection against wind and water erosion. The erosion control plan may be prepared by the Construction Contractor or designee. The erosion control plan shall be retained at the construction site and available for inspection upon request.	Ensure preparation and implementation of an erosion control plan with appropriate BMPs to protect against wind and water erosion for any MDP Facility for which a SWPPP is not prepared.	The Construction Superintendent and the applicable Lead Agency (District, City of Moreno Valley, or Riverside County)	State Water Resources Control Board	Prior to construction of each MDP Facility

Potential Impact	Mitigation Measure	Action(s)	Implementation Responsibility	Governing Agency	Timing
<p>IMPACT HYD 2: <i>Result in substantial discharges of typical storm water pollutants or substantial changes to surface water quality including, but not limited to, temperature, dissolved oxygen, pH, or turbidity.</i></p>	<p>MM HYD 1: Prior to the construction of any Moreno MDP Facility that does not require preparation of a site-specific SWPPP, an erosion control plan shall be prepared that identifies erosion control BMPs, such as soils binders, mulching, permanent seeding, sodding, or other BMPs which will provide adequate protection against wind and water erosion.</p> <p>The erosion control plan may be prepared by the Construction Contractor or designee.</p> <p>The erosion control plan shall be retained at the construction site and available for inspection upon request.</p>	<p>Ensure preparation and implementation of an erosion control plan with appropriate BMPs to protect against wind and water erosion for any MDP Facility for which a SWPPP is not prepared.</p>	<p>The Construction Superintendent and the applicable Lead Agency (District, City of Moreno Valley, or Riverside County)</p>	<p>State Water Resources Control Board</p>	<p>Prior to construction of each MDP Facility</p>
<p>IMPACT HYD 3: <i>Substantially alter the existing drainage pattern of the site or area, or substantially increasing the rate or amount of surface runoff in a manner which would result in flooding on- or off-site.</i></p>	<p>MM HYD 2: Prior to approval of any Moreno MDP Facility, the design and plans shall demonstrate storm flows and runoff from that specific Facility will be conveyed to an adequate outlet system to the satisfaction of the Riverside County Flood Control and Water Conservation District.</p> <p>As feasible, development of the MDP Facilities shall occur in appropriate phases as to ensure conveyance of storm flows and runoff will have adequate outlets.</p>	<p>Ensure storm flows and runoff associated with each MDP Facility will be conveyed to an adequate outlet system</p>	<p>Project proponent and Applicable Lead Agency (District, City of Moreno Valley, or Riverside County)</p>	<p>District (Design and Construction Division)</p>	<p>Prior to approval of each MDP Facility</p>

Potential Impact	Mitigation Measure	Action(s)	Implementation Responsibility	Governing Agency	Timing
NOISE					
IMPACT NOI 1: <i>Noise associated with construction equipment may exceed the maximum noise levels for residential and commercial land uses.</i>	MM NOI 1: To minimize the construction noise exposure and prevent construction-related noise from disturbing sensitive receivers within proximity to the Project, construction of the MDP Facilities shall be in compliance with (a) Moreno Valley Municipal Code Section 8.21.050(O), which limits grading activities to the hours of 7:00 a.m. to 6:00 p.m. Monday through Friday, and from 8:00 a.m. to 4:00 p.m. on weekends and holidays and Moreno Valley Municipal Code Section 11.80.030(D)(7), which limits other construction activities, as well as operational and maintenance activities, to the hours of 7:00 a.m. to 8:00 p.m. on weekdays and 7:00 a.m. to 8:00 p.m. on weekends and holidays. These time limits do not apply to emergency maintenance.	Ensure construction does not occur outside of the described construction hours	Construction Superintendent and the Applicable Lead Agency (District, City of Moreno Valley, or Riverside County)	City of Moreno Valley	During grading and construction of all MDP Facilities
IMPACT NOI 1 <i>(Continued)</i>	MM NOI 2: To minimize noise impacts resulting from poorly tuned or improperly modified vehicles and construction equipment, all vehicles and construction equipment shall maintain equipment engines in good condition and in proper tune per manufacturer’s specifications to the satisfaction of the District or Moreno Valley, as appropriate. Equipment maintenance records and equipment design specification data sheets shall be available for review upon request.	Ensure the construction contractor maintains construction equipment in proper tune per manufacturers’ specifications. Periodically check maintenance records and design specification data.	Construction Superintendent and the Applicable Lead Agency (, City of Moreno Valley, or Riverside County)	Lead Agency	During construction of any MDP Facility
IMPACT NOI 1 <i>(Continued)</i>	MM NOI 3: To inform potential sensitive receivers of the pending construction of an MDP Facility or Facilities, the proponent of any MDP Facility that is not constructed as part of a private development project, shall give written notification to all property addresses, as shown on the latest Riverside County Assessors’ roll within 200 feet of the construction footprint no less than 7 days prior to the start of construction. The written notification shall include a tentative construction schedule and contact information for use by the public if specific noise issues arise.	Ensure that the described notices are provided to all property addresses within 200 feet of the construction footprint of any MDP Facility that is not constructed as part of a private development project	Applicable Lead Agency (District, City of Moreno Valley, or Riverside County)	Lead Agency	No less than seven days prior to construction of any MDP Facility

Potential Impact	Mitigation Measure	Action(s)	Implementation Responsibility	Governing Agency	Timing
IMPACT NOI 2: <i>Exposure of persons to or generation of excessive ground-borne vibration or ground-borne noise levels</i>	MM NOI 1 (see above) MM NOI 2 (see above) MM NOI 3 (see above)	See above	See above	See above	See above