

SR-94 IMPROVEMENT PROJECT: ENVIRONMENTAL MATRIX

Issues	Sub-Category	Alt 1 Reservation Road Access	Alt 2: Opt 1 Daisy Drive Access (Full Disturbed Area)	Alt 2: Opt 2 Daisy Drive Access (Reduced Disturbed Area)	Alt 2: Opt 3 Daisy Drive Access (Minimum Disturbed Area)	Alt 3 Melody Road Access	Alt 4 No Build
MSCP (Lands under County Jurisdiction)	Acres	3.17	3.06	2.71	2.19	8.11	No impacts to these areas would occur under the No Build scenario.
CDFW Land	Acres	1.57	0.41	0.51	-0-	0.32	No impacts to these areas would occur under the No Build scenario.
Waters of the U.S. Permanent Effects: <i>Channels</i>	Acres	0.05	0.05	0.05	0.02	0.10	No impacts to these areas would occur under the No Build scenario.
Waters of the US Temporary Effects: <i>Channels</i>	Acres	0.01	0.01	0.01	0.01	0.02	No impacts to these areas would occur under the No Build scenario.
Waters of the State (riparian habitat calculated below as a sensitive habitat type)	Acres	0.05	0.05	0.05	0.02	0.10	No impacts to these areas would occur under the No Build scenario.
Vegetation Communities in Each Access Alternatives (excluding urbanized/developed category)	Acres	1.79	1.68	1.62	0.25	7.07	No impacts to these areas would occur under the No Build scenario.
Temporary Effects to Sensitive Habitat Types	Acres	0.57	0.67	0.56	0.15	1.82	No impacts to these areas would occur under the No Build scenario.
Permanent Effects to Sensitive Habitat Types	Acres	1.22	1.01	1.06	0.10	5.25	No impacts to these areas would occur under the No Build scenario.

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Land Use	Land Use	Alt 1 would affect parking and internal circulation at businesses near SR-94/Steele Canyon Road intersection.	Proposed improvements at SR-94/Steele Canyon Road are same as Alt. 1.	Proposed improvements at SR-94/Steele Canyon Road are same as Alt. 1.	Proposed improvements at SR-94/Steele Canyon Road are same as Alt. 1.	Proposed improvements at SR-94/Steele Canyon Road are same as Alt. 1.	Would not assist in attaining “safe, efficient circulation” system per language in Valle de Oro Community or Jamul Subregion.
	Consistency with Adopted Plans	<p>Alt 1 would change the rural visual character by introducing new built features within the viewshed, which may be in conflict with Goal 1 (Mobility) of the Jamul/Dulzura Sub Regional Plan.</p> <p>Development of land outside Caltrans ROW, within MSCP, would need County approval of a Minor Amendment.</p>	Affects to the viewshed and affects to MSCP lands would be less than Alt 1; however, a conflict with Goal 1 (Mobility) of the Sub Regional Plan may still result. County approval of Minor Amendment would also be required.	Affects to the viewshed and affects to MSCP lands would be less than Alt 2: Opt 1; however, a conflict with Goal 1 (Mobility) of the Sub Regional Plan may still result. County approval of Minor Amendment would also be required.	Affects to the viewshed and affects to MSCP lands would be less than the other design alternatives; however, a conflict with Goal 1 (Mobility) of the Sub Regional Plan may still result. County approval of Minor Amendment would also be required.	<p>Alternative 3 would greatly affect scenic views, which appears to be in conflict with Goal 1 (Mobility) of the Jamul/Dulzura Sub Regional Plan.</p> <p>MSCP effects would be greatest under Alternative 3 due to largest access road footprint.</p> <p>The Alt 3 access road would be in conflict with Community Plan stated goal to limit commercial road connections with collector streets.</p>	Alt 4 would not result in transportation changes that facilitate adopted plan goals re: providing a safe/efficient transportation system, as would be the case under Alts 1-3.
Community Character and Cohesion	Population and Housing	Some residential frontage would be needed for ROW expansion north of Melody Road. No residential buildings would be affected by the planned improvements.	Same as Alt 1.	Same as Alt 1.	Same as Alt 1.	Same as Alt 1.	Alt 4 would not result in any changes that would affect Population/Housing.

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	Neighborhood/ Community Character	The proposed improvement at SR-94/Steele Canyon Road may directly affect existing rural commercial uses due to ROW needs. The access road improvements would signal a shift from rural residential/ commercial to a more developed/ urban environment.	Proposed improvements at SR-94/Steele Canyon Road are same as Alt. 1.	Proposed improvements at SR-94/Steele Canyon Road are same as Alt. 1.	Proposed improvements at SR-94/Steele Canyon Road are same as Alt. 1.	Proposed improvements at SR-94/Steele Canyon Road are same as Alt. 1.	The continued increase of traffic along SR-94 would result in adverse effects to Neighborhood/ Community Character . Congestion would increase from current conditions resulting in a deterioration of LOS along select intersections and roadways.
Traffic	Existing Traffic Conditions Plus JIV Gaming and Project Conditions	All project intersections would operate at an acceptable level of service.	Same as Alt 1.	Alt 4 would not result in any changes that would affect existing traffic conditions after the addition of the JIV gaming project traffic			
	Near Term (2015) with Project Traffic Conditions	All intersections would operate at an acceptable level of service.	Same as Alt 1.	Alt 4 would not result in any changes that would affect near term traffic.			
	Horizon Year (2035) with Project Traffic Conditions	The level of service at SR-94/Jamacha Boulevard would deteriorate.	Same as Alt 1.	Alt 4 would not result in any changes that would affect Horizon Year traffic.			
	Pedestrian, Transit and Bike Lanes	Alt 1 would require the temporary shutdown of the existing ped waiting area at SR-94/Jamacha Road. The bus stop at SR-94/Maxfield would be upgraded.	Same as Alt 1.	Alt 4 would not result in any changes that would affect Pedestrian, Transit or Bike Lanes.			
Utilities and Emergency Services	Utilities	Improvements would conflict with existing above ground and below ground	Although the access road footprint is smaller than Alternative 1,	Although the access road footprint is smaller than Alt 2: Opt 1,	Although the access road footprint for Alt 2: Opt 3 is the	Utility conflicts for Alt 3 is same as Alt 1. Portion of this alignment through	Alt 4 would not result in any changes that would affect above or below ground utilities.

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		utilities, except at the SR-94/Jamacha Boulevard intersection, resulting in necessary rerouting of utilities.	conflicts with both above and below ground utilities would occur, resulting in the necessary rerouting of utilities.	conflicts with both above and below ground utilities would occur, resulting in the necessary rerouting of utilities.	smallest of all build alternatives, conflicts with both above and below ground utilities would occur, resulting in the necessary rerouting of utilities.	87-acre parcel would not conflict with utilities.	
	Emergency Services	No lane closures for Jamacha Blvd, Jamacha Road, Steele Canyon Road, Lyons Valley Road and Maxfield Road intersections during construction. Temporary closure may occur at Melody Road during construction. Emergency services/access would be improved once construction is completed.	The smaller access road footprint, compared to Alt 1, may still require temporary closure at Melody Road during construction. Other intersections would not have temporary closures. Emergency services/access would be improved once construction is completed.	The smaller access road footprint, compared to Alt 2: Opt 1, may still require temporary closure at Melody Road during construction. Other intersections would not have temporary closures. Emergency services/access would be improved once construction is completed.	Although the access road footprint for Alt 2: Opt 3 is the smallest of all build alternatives, temporary closure at Melody Road during construction may occur. Other intersections would not have temporary closures. Emergency services/access would be improved once construction is completed.	The largest footprint of all design alts, Alt 3 may cause a temporary closure at Melody Road. Other intersections would not have temporary closures. Emergency services/access would be improved once construction is completed.	No temporary lane closures would occur under the No Project; however, continued deterioration of LOS will cause delays in emergency service response.
Visual Resources/ Aesthetics	Construction	Temporary visual effects would be felt during construction but would cease following construction. Duration of construction is 18-24 months.	The smaller footprint under Alt 2: Opt 1 could reduce the construction period when compared with Alt 1.	The smaller footprint under Alt 2: Opt 2 could reduce the construction period when compared with Alt 2: Opt 1.	The smallest of the footprints, Alt 2: Opt 3 could reduce the construction period when compared with the other design alternatives.	The largest of the design alternative footprints, construction of Alt 3 would take the longest amount of time.	Alt 4 would not result in development activities that could potentially affect visual resources.

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	Operational	The project location is a public roadway, not designated as a scenic highway corridor or protected by the Caltrans Scenic Highways program; however, it is listed as a County of San Diego scenic highway. The implementation of Alt 1 would change the rural visual character of the view by introducing new built features within the viewshed.	Alt 2: Opt 1 would change the rural visual character of the view by introducing new built features within the viewshed, but to a lesser extent than Alt 1 due to the fact that the new Tribal intersection would be located further north than under Alt 1 and the improvements south of the JIV would not extend as far south into the rural area as for Alt 1.	Alt 2: Opt 2 would change the rural visual character of the view by introducing new built features within the viewshed, but to a lesser extent than Alt 1 for the same reason as stated under Alt 2: Opt 1.	Alt 2: Opt 3 would change the rural visual character of the view by introducing new built features within the viewshed, but to a lesser extent than Alt 1 for the same reason as stated under Alt 2: Opt 1.	Alt 3 would greatly affect scenic views, as portions of the project are located within higher elevation areas of existing undeveloped land that retains a natural character of the Jamul Valley and would be visible from several areas within the viewshed. Alt 3 would also create a new source of substantial light or glare that would adversely affect day or nighttime views in the area.	Alt 4 would not result in development activities that could potentially affect visual resources.
Cultural Resources	Construction	Phase 1 testing within the project footprint did not reveal the presence of cultural resources, although recorded sites have been documented close to the area. However, there is the potential for uncovering previously unknown resources.	Same as Alt 1. The smaller footprint compared to Alt 1 would reduce the likelihood of encountering buried resources.	Same as Alt 1. The smaller footprint compared to Alt 2: Opt 1 would reduce the likelihood of encountering buried resources.	Same as Alt 1. Having the smallest footprint would reduce the likelihood of encountering buried resources.	Same as Alt 1. Having the largest footprint and encroaching in an undeveloped area within the 87-acre parcel increases the likelihood of encountering buried resources.	Alt 4 would not result in development activities that could potentially unearth buried resources.
Hydrology and Floodplain	Construction	Temporary effects would occur as construction equipment would be operating in channels for the Jamacha	Although Alt 2: Opt 1 has a smaller footprint than Alt 1, the temporary effects at Jamacha Road	Although Alt 2: Opt 2 has a smaller footprint than Alt 2: Opt 1, the temporary effects at Jamacha	Although Alt 2: Opt 3 has the smallest footprint, the temporary effects at Jamacha Road and Melody	Temporary effects similar to Alt 1. Additionally, Alt 3 would create several new creek crossings within the	No construction activities would occur that would potentially effect hydrology.

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		Road and Melody Road improvements.	and Melody Road would still occur.	Road and Melody Road would still occur.	Road would still occur.	87-acre parcel; thereby, increasing the potential for hydrology effects.	
	Operational	The incremental increase in impervious surface due to planned improvements would not substantially increase the volume or flow rate of surface water.	The smaller footprint under Alt 2: Opt 1 would incrementally reduce the amount of impervious surface when compared to Alt 1.	The smaller footprint under Alt 2: Opt 2 would incrementally reduce the amount of impervious surface when compared to Alt 2: Opt 1.	The smaller footprint under Alt 2: Opt 3 would incrementally reduce the amount of impervious surface when compared to Alt 2: Opt 2.	Alt 3 has the largest footprint, the incremental increase in impervious surface would not substantially increase the volume or flow rate of surface water.	No increases in impervious surface would occur under Alt 4.
	Floodplain	Proposed improvements are not mapped within FEMA 100-year floodplain. Improvements will not hinder water flow or result in substantial rise of water surface elevation.	Same as Alt 1.	Same as Alt 1	Same as Alt 1	Same as Alt 1	No increases in impervious surface would occur under Alt 4.
Water Quality and Stormwater Runoff	Water Quality	Implementing a construction SWPPP and incorporating BMPs including bioswales into the proposed design will minimize negatively adverse effects on surface water quality when comparing post-construction conditions to pre-construction conditions.	Same as Alt 1. The reduced footprint under Alt 2: Opt 1 would incrementally reduce the pollutant load when compared with Alt 1.	Same as Alt 1. The reduced footprint under Alt 2: Opt 2 would incrementally reduce the pollutant load when compared with Alt 2: Opt 1.	Same as Alt 1. The reduced footprint under Alt 2: Opt 3 would incrementally reduce the pollutant load when compared with the other design alternatives.	Same as Alt 1. The largest of the footprints would be required to implement an increased number of bioswales to offset increased flows.	No changes to existing quality of surface runoff would occur under Alt 4.

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Geology and Soils	Seismic Hazards	Ground shaking is a possibility at the project site.	Same as Alt 1	Same as Alt 1	Same as Alt 1	Same as Alt 1	No development would occur under Alt 4; therefore, no seismic hazard effects would occur.
	Erosion	Existing alignment doesn't exhibit an unusual amount of erosion. Erosion related to improvements is not seen as being an issue.	Same as Alt 1	Same as Alt 1	Same as Alt 1	Same as Alt 1	No development would occur under Alt 4; therefore, no affects to erosion would occur.
Paleontology	Paleontological Resources	The alluvium is assigned a low sensitivity as it is too young to contain fossils. All other rock units are not sensitive for fossil resources.	Same as Alt 1	Same as Alt 1	Same as Alt 1	Same as Alt 1	No development would occur under Alt 4; therefore, no affects to paleontological resources would occur.
Hazardous Materials	Buried Hazards or Hazardous Materials	Construction may encounter contamination at the SR-94/Steele Canyon intersection resulting from the 7-Eleven store	The Alt 2: Opt 1 footprint for the SR-94/Steele Canyon Road improvement is the same as for Alt 1.	The Alt 2: Opt 2 footprint for the SR-94/Steele Canyon Road improvement is the same as for Alt 1.	The Alt 2: Opt 3 footprint for the SR-94/Steele Canyon Road improvement is the same as for Alt 1.	The Alt 3 footprint for the SR-94/Steele Canyon Road improvement is the same as for Alt 1.	No development at the SR-94/Steele Canyon Road intersection would occur under Alt 4.
	Aerially Deposited Lead	Surface and near-surface soils along roadways have potential to contain elevated concentrations of Lead	While the access road footprint for Alt 2: Opt 1 is smaller than Alt 1, the potential to contain elevated concentrations of Lead still exists.	While the access road footprint for Alt 2: Opt 2 is smaller than Alt 2: Opt 1, the potential to contain elevated concentrations of Lead still exists.	While the access road footprint for Alt 2: Opt 3 is the smallest of all design alternatives, the potential to contain elevated concentrations of Lead still exists.	Same as Alt 1.	No development at the existing highway would occur under Alt 4; therefore, no mobilization of Lead would occur.

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Air Quality	Construction and Operational	No exceedances	No exceedances	No exceedances	No exceedances	No exceedances	No development at the existing highway would occur under Alt 4; therefore, no construction/operational emissions would occur.
Noise	Traffic Noise	Greatest increase: +2 dBA change @ 14024 Peaceful Valley Ranch Road (Comm) Greatest decrease: -1 dBA @ 13967 SR-94 (Comm), 14022 Hillsdale Drive (Res), 14023 Campo Drive (Res), and Jamul Reservation Church	Greatest increase: +1 dBA 14024 Peaceful Valley Ranch Road (Res) Greatest decrease: -5 dBA @ 3007 Calle Mesquite (Res)	Greatest increase: +1 dBA 14024 Peaceful Valley Ranch Road (Res) Greatest decrease: -5 dBA @ 3007 Calle Mesquite (Res)	Greatest increase: +1 dBA 14024 Peaceful Valley Ranch Road (Res) Greatest decrease: -5 dBA @ 3007 Calle Mesquite (Res)	Greatest increase: +2 dBA @ 14031 Las Palmas Rd (Res), 14066 SR-94 (Res), 3023 Calle Mesquite (Res), 3015 Calle Mesquite (Res), and 3007 Calle Mesquite (Res). Greatest decrease: N/A	No development at the existing highway would occur under Alt 4; therefore, no change in noise environment would occur.
Natural Communities	Natural Communities	Temporary and Permanent effects would occur to sensitive habitat types as follows: Temp 0.57 acres; Perm 1.22 acres.	Temporary and Permanent effects would occur to sensitive habitat types as follows: Temp: 0.67 acres; Perm 1.01 acres.	Temporary and Permanent effects would occur to sensitive habitat types as follows: Temp 0.56 acres; Perm 1.06 acres.	Temporary and Permanent effects would occur to sensitive habitat types as follows: Temp 0.15 acres; Perm 0.10 acres.	Temporary and Permanent effects would occur to sensitive habitat types as follows: Temp 1.82 acres; Perm 5.25 acres.	No development at the existing highway would occur under Alt 4; therefore, no change to Natural Communities would occur. - Southern Coast Live Oak Riparian Forest - Diegan Coastal Sage Scrub - Southern willow scrub - Non-Native Grasslands, - Water resources
	Wildlife Corridors	Improvements are focused in existing transportation corridor. Construction would	Same as Alt 1. The smaller footprint would result in reduced intrusion into	Same as Alt 1. The smaller footprint under Alt 2: Opt 2 would result in reduced	Same as Alt 1. The smallest footprint of all design alternatives would result in the	The construction of the road within the 87-acre parcel would cause habitat fragmentation	No development at the existing highway would occur under Alt 4; therefore, no effects to wildlife corridors would

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		not include use of fencing, walls or other wildlife barriers. Use of permanent retaining walls could discourage species from entering SR-94 ROW.	undeveloped areas when compared with Alt 1.	intrusion into undeveloped areas when compared with Alt 1-2: Opt 1.	smallest intrusion into undeveloped areas.	between Melody Road and the JIV	occur. Existing wildlife corridors in the project area include: Willow Creek riparian corridor, Jamul Creek riparian corridor, Sweetwater River floodplain, Steele Canyon riparian corridor, Proctor Valley drainage, undeveloped lands in Jamul/San Miguel Mountains and the CDFW preserves.
	Multi-Species Habitat Conservation Plan	Results in removal of 3.15 acres of natural habitat protected by MSCP .	Results in the removal of 3.06 acres of natural habitat protected by MSCP.	Results in the removal of 2.71 acres of natural habitat protected by MSCP.	Results in the removal of 2.19 acres of natural habitat protected by MSCP.	Results in the removal of 8.11 acres of natural habitat protected by MSCP.	No development at the existing highway would occur under Alt 4; therefore, no MSCP conflicts would occur. Metro-Lakeside-Jamul Segment, South County Segment Preserve.
Wetlands and Other Waters	Waters of the U.S./State and Wetlands	Temporary and permanent effects to Waters of the U.S. (0.05 acres)/State (0.05 acres) could occur .	Temporary and permanent effects to Waters of the U.S. (0.05 acres)/ State (0.05 acres) could occur.	Temporary and permanent effects to Waters of the U.S. (0.05 acres)/ State (0.05 acres) could occur.	Temporary and permanent effects to Waters of U.S. (0.02 acres) /State (0.02 acres) could occur.	Temporary and permanent effects to Waters of U.S. (0.10 acres)/ State (0.10 acres) could occur.	No development would occur under Alt 4; therefore, no affects to wetlands and other waters would occur. Willow Creek (tributary to Jamul Creek) channel, instream wetlands and ephemeral tributaries to Willow Creek
Plant Species	Special Status Plant Species	No sensitive plant species were identified within the Alt 1 footprint.	No sensitive plant species were identified within the Alt 2: Opt 1 footprint.	No sensitive plant species were identified within the Alt 2: Opt 2 footprint.	No sensitive plant species were identified within the Alt 2: Opt 3 footprint.	Construction may eliminate a stand of Palmer’s goldenbush (Ericameria palmeri	No development would occur under Alt 4; therefore, no affects to sensitive plant species would occur.

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Animal Species	Lighting and Noise	Nighttime construction could potentially affect sensitive animal species	Same as Alt 1. The smaller footprint could translate into a shorter construction period than under Alt 1.	Same as Alt 1. The smaller footprint could translate into a shorter construction period than under Alt 2: Opt 1.	Same as Alt 1. The smallest footprint of all design alternatives could translate into a shorter construction period than under the other design alternatives.	var. palmeri) The largest of the footprints, Alt 3 includes development in a heretofore undeveloped area, which could increase the nighttime construction effects when compared with the other design alternatives.	No development would occur under Alt 4; therefore, no construction would occur at night.
	Nesting Birds	Construction, which is expected to last 18-24 months, would occur during breeding/nesting season (Feb 15- Sept 15)	The smaller footprint for Alt 2: Opt 1 could translate into a shorter construction period than Alt 1; however, construction is expected to occur during breeding/nesting season.	The smaller footprint for Alt 2: Opt 2 could translate into a shorter construction period than Alt 2: Opt 1; however, construction is expected to occur during breeding/nesting season.	The smaller footprint for Alt 2: Opt 3 could translate into a shorter construction period than Alt 2: Opt 2; however, construction is expected to occur during breeding/nesting season.	Having the largest footprint of all the design alternatives, Alt 3 could be expected to extend the entire construction period, which would occur during the breeding/nesting period.	No development would occur under Alt 4; therefore, no construction would occur during the breeding/nesting period.
Threatened and Endangered Species	Quino Checkerspot Butterfly Hermes Copper Butterfly Coastal California Gnatcatcher Least Bell's Vireo	Protocol surveys over the past several years have reported no occurrences in the project footprint.	Same as Alt 1.	Same as Alt 1.	Same as Alt 1.	Although butterflies (Quino and Hermes) have not been detected in the Alt 3 footprint, the expanded footprint into the 87-acre parcel would affect habitat for the butterflies.	No development would occur under Alt 4; therefore, this alternative does not have the potential to affect threatened and endangered species.
Invasive Species	Invasive Species	Has the potential to introduce or encourage the spread of invasive species	Same as Alt 1. The smaller footprint of Alt 2: Opt 1 compared to	Same as Alt 1. The smaller footprint of Alt 2: Opt 2 compared to	Same as Alt 1. Although it has the smallest footprint of all design	With the largest of the footprints, and including development within	No development would occur under Alt 4; therefore, this alternative does not

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			Alt 1 results in reduced site disturbance; however, the potential still exists.	Alt 2: Opt 1 results in reduced site disturbance; however, the potential still exists.	alternatives, the potential still exists for Alt 2: Opt 3.	a previously undeveloped areas, Alt 3 has the potential to introduce or encourage the spread of invasive species.	have the potential to introduce or encourage the spread of invasive species.

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