

4.2 Cumulative Projects

This section describes the approach to the cumulative impacts analysis for the Moosa 100K Alternative and identifies cumulative projects in the vicinity of the Moosa 100K study area.

4.2.1 Regulatory Framework

Both CEQA and NEPA require that EIRs discuss the cumulative impacts of a project, in addition to project-specific impacts. Refer to Section 3.2.1 (Cumulative Projects for the Proposed Action) of this EIR/EIS for a detailed discussion of the relevant regulations.

4.2.2 Methodology

Cumulative impacts are evaluated for the Moosa 100K Alternative using the same stepped approach as described in Section 3.2.2 (Cumulative Projects for the Proposed Action) of this EIR/EIS, except that there are no other ESP projects that would be located within the 4.5-mile radius of the Moosa 100K cumulative projects study area (Figure 4.2-1). Therefore, ESP projects are not addressed in the cumulative analysis for this alternative. In addition, as stated in the Section 3.2.2 (Cumulative Projects for the Proposed Action) of this EIR/EIS, the relevant cumulative impact study area specific to each environmental issue is identified at the beginning of the cumulative analysis subsection. For example, the cumulative impact study area for aesthetics/visual quality includes the surrounding viewsheds; for air quality it is the San Diego Air Basin; for water resources it is the downstream watershed; and so on. The approach to the cumulative analysis is described below:

1. **Other CIP Projects.** The Program EIR (PEIR) for the Regional Water Facilities Master Plan was reviewed to identify the CIP projects that should be included in the cumulative analysis for the Moosa 100K Alternative (refer to Section 1.2.3 [Regional Water Facilities Master Plan] of this EIR/EIS for a discussion of the Master Plan and its components). There are a number of CIP projects scheduled to be implemented during the same time period as the Moosa 100K Alternative. However, only the Hubbard Hill Flow Regulatory Structure, North County Distribution Pipeline Flow Regulatory Structure, and Second Crossover Pipeline projects would be geographically located within the 4.5-mile radius of the Moosa 100K cumulative projects study area (see Item 2 below for a discussion of how this study area was derived). These are the only CIP projects with the potential for cumulative impacts when combined with the Moosa 100K Alternative. Therefore, the short- and long-term impacts of these CIP projects, as summarized from the Master Plan PEIR, are addressed in the relevant issue areas for the Moosa 100K Alternative cumulative analysis.

The conclusions regarding cumulative impacts for the above-listed CIP projects are incorporated into the overall results of the cumulative analyses for the other planned projects described below. Both categories of cumulative projects are considered together

with the Moosa 100K Alternative when drawing conclusions about overall cumulative effects, and the results are presented under the next heading.

- 2. Other Planned Projects with CIP Projects.** This section explains how the cumulative projects study area around the Moosa 100K study area was derived; identifies other reasonably foreseeable planned projects within the cumulative study area in addition to the CIP projects listed above; and describes the methodology used to evaluate the combined cumulative impacts associated with the Moosa 100K Alternative when considered in conjunction with the CIP and other planned cumulative projects.

The County of San Diego Permit Database was reviewed to identify the status of all active and closed permit actions currently under review by the County for the Valley Center Planning Area. Over 600 individual permit actions were identified. Of these, over 400 were “closed-status” permits.

Due to the overwhelming number of permit cases to review, it was necessary to identify a reasonable cumulative projects study area around the Moosa 100K study area within which to focus the search efforts. As described in Section 3.2.2 (Cumulative Projects for the Proposed Action) of this EIR/EIS, a 4.5-mile radius was determined to be a reasonable distance in defining the cumulative projects study area for the Proposed Action, based on the cumulative analysis in the ESP EIR/EIS. Thus, a 4.5-mile radius is also the applied range for considering cumulative effects associated with the Moosa 100K Alternative (Figure 4.2-1).

All County open- and closed-status permit actions were reviewed within the 4.5-mile cumulative projects study area radius; administrative actions and cellular sites were screened out. From this screening, 32 projects remained for the Moosa 100K cumulative impact analysis (Table 4.2-1). Table 4.2-1 shows the permit type, permit number, APN, address, and a brief project description for each cumulative project.

Because the timing of implementation of the cumulative projects is unknown, it is assumed under a worst-case analysis scenario that these cumulative projects could be constructed within the same timeframe as the Moosa 100K Alternative. Therefore, all 32 projects are addressed in the cumulative analysis for this alternative.

Table 4.2-2 describes the geographic scope of the cumulative impact study areas for each environmental issue, and the rationale for the specified geographic area. Based on research of available environmental documentation for the cumulative projects within the 4.5-mile cumulative projects study area (Figure 4.2-1), the short- and long-term cumulative impacts of the other planned cumulative projects are either summarized (for the issue area of Biological Resources with respect to impacts on sensitive species and habitats) or are generally considered for the following issue areas: Aesthetics/Visual Quality, Agricultural Resources, Cultural Resources, Mineral Resources, Paleontological Resources, Public Services/Utilities, Recreation, and Traffic/Circulation. The cumulative

impact study areas are narrower in geographic scope than the 4.5-mile cumulative projects study area for the following issue areas: Land Use/Planning and Noise/Vibration. The cumulative impact study areas are broader in geographic scope than the 4.5-mile cumulative projects study area for the following issue areas: Air Quality, Geology/Soils, Mineral Resources, Public Safety/Hazardous Materials, and Water Resources. The combined cumulative effects of the Moosa 100K Alternative; the Hubbard Hill Flow Regulatory Structure, North County Distribution Pipeline Flow Regulatory Structure, and Second Crossover Pipeline CIP projects; and the other planned cumulative projects are examined for each Threshold of Significance addressed in the Impact Analysis for that issue area.

Finally, conclusions of significance about cumulative impacts of the Moosa 100K Alternative are presented. The direct and indirect impacts of the Moosa 100K Alternative (and mitigation measures, if applicable) are summarized for each Significance Threshold; the project-specific contributions from this alternative to cumulative impacts associated with each Significance Threshold are stated; a determination of significance is given for each cumulative impact of the Moosa 100K Alternative combined with the short-term (construction-related) and/or long-term (operational) impacts associated with the Hubbard Hill Flow Regulatory Structure, North County Distribution Pipeline Flow Regulatory Structure, and Second Crossover Pipeline CIP projects and the other planned cumulative projects listed in Table 4.2-1; and for significant cumulative impacts, the discussion concludes with a determination of significance after application of mitigation measures (e.g., either less than significant after mitigation or an unmitigable impact requiring a Statement of Overriding Considerations).

Table 4.2-1. Cumulative Projects Associated with the Moosa 100K Alternative

Cumulative Project Number	Permit Type - Description	Permit Number	APN	Address	Project Description
1	Tentative Map	4793	127-551-01-00	30570 Via Cantamar	Subdivision of 215 acres into 37 lots, 33 of which are proposed residential lots. Approved by Planning Commission on 5/13/1992.
	Tentative Map	4793	127-551-03-00	30546 Via Cantamar	
2	Tentative Map	4957	186-062-03-00	12125 Betsworth	Negative Declaration (1993): 84.4 acre subdivision into 19 residential lots ranging from 2 to 16 acres.
3	Tentative Parcel Map	20423	185-112-44-00	No Address	Minor subdivision of 8.03 acres into 3 lots of approximately 2 acres each with a single-family dwelling on each lot.
4	Tentative Parcel Map	20450	129-162-34-00	12502 Arboleda Vista	Subdivision of 9.63 acres into 4 single-family residential parcels, each with a minimum parcel size of 2 acres (net).
5	Tentative Parcel Map	20595	129-350-23-00	30496 Lilac	13.4 acre subdivision into 4 parcels ranging from 2.26 to 2.76 acres.
6	Tentative Parcel Map	20602	188-180-04-00	29406 Cole Grade	Notice of Determination (filed 5/04): Minor subdivision of 11.14 acres into 4 parcels ranging in size from 2.26 to 2.76 net acres.

Cumulative Project Number	Permit Type - Description	Permit Number	APN	Address	Project Description
7	Tentative Parcel Map	20677	185-391-21-00	28347 Aerie	7.2 acre minor subdivision into 3 parcels for single family residential.
8	Tentative Parcel Map	20680	185-390-08-00	28621 Spyglass	6.37 acre minor subdivision split into 2 parcels for single-family residential measuring 2.64 and 2.71 acres.
9	Specific Plan	00-02 TPM20510 MUP00-008	189-120-48-00	14086 Ridge Ranch	Proposed subdivision of 25.28 acres to be subdivided into 3 parcels (5.69, 4.99, 14.60 acres). Development of the property involves concurrent processing of a Specific Plan.
10	Tentative Map	5001	185-111-10-00	11920 Betsworth	Negative Declaration: 64.4AC subdivide into 18 lots.
	Tentative Map	5001	185-113-53	11920 Betsworth	
	Tentative Map	5001	185-113-54	11921 Betsworth	
	Tentative Map	5001	185-113-55	11922 Betsworth	
	Tentative Map	5001	185-113-56	11923 Betsworth	
	Tentative Map	5001	185-113-57	11924 Betsworth	
	Tentative Map	5001	185-113-58	11925 Betsworth	
	Tentative Map	5001	185-113-59	11926 Betsworth	
	Tentative Map	5001	185-113-60	11927 Betsworth	
	Tentative Map	5001	185-113-61	11928 Betsworth	
	Tentative Map	5001	185-113-62	11929 Betsworth	
	Tentative Map	5001	185-113-63	11930 Betsworth	
	Tentative Map	5001	185-113-64	11931 Betsworth	
	Tentative Map	5001	185-113-65	11932 Betsworth	
	Tentative Map	5001	185-113-66	11933 Betsworth	
	Tentative Map	5001	185-113-67	11934 Betsworth	
	Tentative Map	5001	185-113-68	11935 Betsworth	
	Tentative Map	5001	185-113-69	11936 Betsworth	
Tentative Map	5001	185-113-70	11937 Betsworth		
11	Tentative Map	5129	185-274-01-00	No Address	21.41 acre subdivided into 9 lots ranging from 2 to 4 acres.
	Tentative Map	5129	185-274-06-00	12464 Betsworth	
12	Tentative Map	5173	129-420-14-00	No Address	Subdivision of 435 acres into 169 lots, primarily 2-acre residential lots. 15 acres on one side is planned to have 4-acre lots.
	Tentative Map	5173	129-420-15-00	No Address	
	Tentative Map	5173	129-420-16-00	No Address	
	Tentative Map	5173	129-421-07-00	No Address	
	Tentative Map	5173	129-421-08-00	No Address	
	Tentative Map	5173	129-421-09-00	29906 Miller	
	Tentative Map	5173	129-421-20-00	13592 Anthony Ridge	
	Tentative Map	5173	133-201-25-00	No Address	
	Tentative Map	5173	133-201-26-00	No Address	
	Tentative Map	5173	133-220-38-00	No Address	
Tentative Map	5173	133-220-39-00	No Address		
Tentative Map	5173	133-220-40-00	30250 Cole Grade		

Cumulative Project Number	Permit Type - Description	Permit Number	APN	Address	Project Description
13	Tentative Map	5177	185-274-08-00	12875 Betsworth	Brook Forest Specific Plan; 226-acre site proposes 65 custom estate lots, each 2 acres with 122 acres of common open space. 56 residential lots on 82.18 acres. Dedicated open space, encompassing 137.22 acres, agricultural area of approximately 6.6 acres. Total number of easements: 137.22 acres or 61%.
	Tentative Map	5177	186-061-01-00	No Address	
	Tentative Map	5177	186-061-02-00	No Address	
	Tentative Map	5177	186-061-03-00	No Address	
	Tentative Map	5177	186-210-02-00	No Address	
	Tentative Map	5177	186-210-18-00	No Address	
	Tentative Map	5177	186-210-70-00	No Address	
14	Tentative Map	5301	188-230-01-00	29025 Miller	Village Square at Valley Center Shopping Center. Project consists of 3.28 acres of retail, 0.85 acres of commercial office, 0.14 acre medical office and 63 town homes. Associated with Brook Forest (TM 5177) SP: 00-01
	Tentative Map	5301	188-230-06-00	No Address	
15	Tentative Map	5305	186-720-36-00	27463 Red Ironbark	Mitigated Negative Declaration: Subdivision of 27.7 acres into 21 residential lots with 1-acre minimums.
16	Tentative Map - Standard	5308	189-282-23-00	14324 Calle De Vista	Mitigated Negative Declaration (may not be certified): 13-lot residential subdivision on 21.7 acres.
17	Tentative Map - Standard	5359	185-201-33-00	No Address	Project proposed subdividing 43 acres into 9 parcels with 6 4-acre parcels, 1 4.7-acre lot, 1 4.9-acre lot, and appurtenant roads.
18	Tentative Parcel Map	20676	129-270-24-00	30474 Roadrunner Ridge	Negative Declaration: 10.5 acre subdivision into 2 lots.
19	Tentative Parcel Map	20723	185-030-30-00	29104 North View	Negative Declaration: 12.6 acre subdivision into 2 lots.
20	Tentative Parcel Map	20842	129-291-05-00	No Address	Subdivision of 10.8 acres into 4 parcels ranging from 2.3 acres to 3.1 acres, each having a residence and septic system.
21	Tentative Parcel Map	20892	129-340-07-00	11661 Mesa Verde	Subdivision of 4.63 acres into 2 residential parcels, ranging in size from 2.08 to 2.6 acres.
22	TPM - Caney	20929	133-360-24-00	29953 Cole Grade	Minor subdivision into 2 parcels, 2.65 acres and 2.80 acres.
23	Major Use Permit	03-083	188-230-13-00	29010 Cole Grade	Valley Center Community Church, 20.06 acres.
24	Major Use Permit	97-013	186-270-08-00	No Address	Notice of Determination (filed in 1994): Woods Valley Ranch golf course and subdivision. 437 acres total, with 218 single family homes on 165 acres. Golf course is 170 acres.
	Major Use Permit	97-013	189-012-17-00	27643 Valley Center	
	Major Use Permit	97-013	189-012-18-00	27765 Valley Center	
	Major Use Permit	97-013	189-012-19-00	No Address	Woods Valley Ranch Wastewater Reclamation Facility located within a 28,985 square foot (0.665 acre) site, near the western perimeter of the golf course.
	Major Use Permit	97-013	189-092-22-00	No Address	
	Major Use Permit	97-013	189-130-04-00	14616 Woods Valley	
	Major Use Permit	97-013	189-282-18-00	No Address	
	Major Use Permit	97-013	189-350-01-00	14187 Winged Foot	
	Major Use Permit	97-013	189-350-02-00	14175 Winged Foot	
	Major Use Permit	97-013	189-350-03-00	14163 Winged Foot	
	Major Use Permit	97-013	189-350-04-00	14151 Winged Foot	
	Major Use Permit	97-013	189-350-05-00	14139 Winged Foot	
Major Use Permit	97-013	189-350-06-00	14127 Winged Foot		

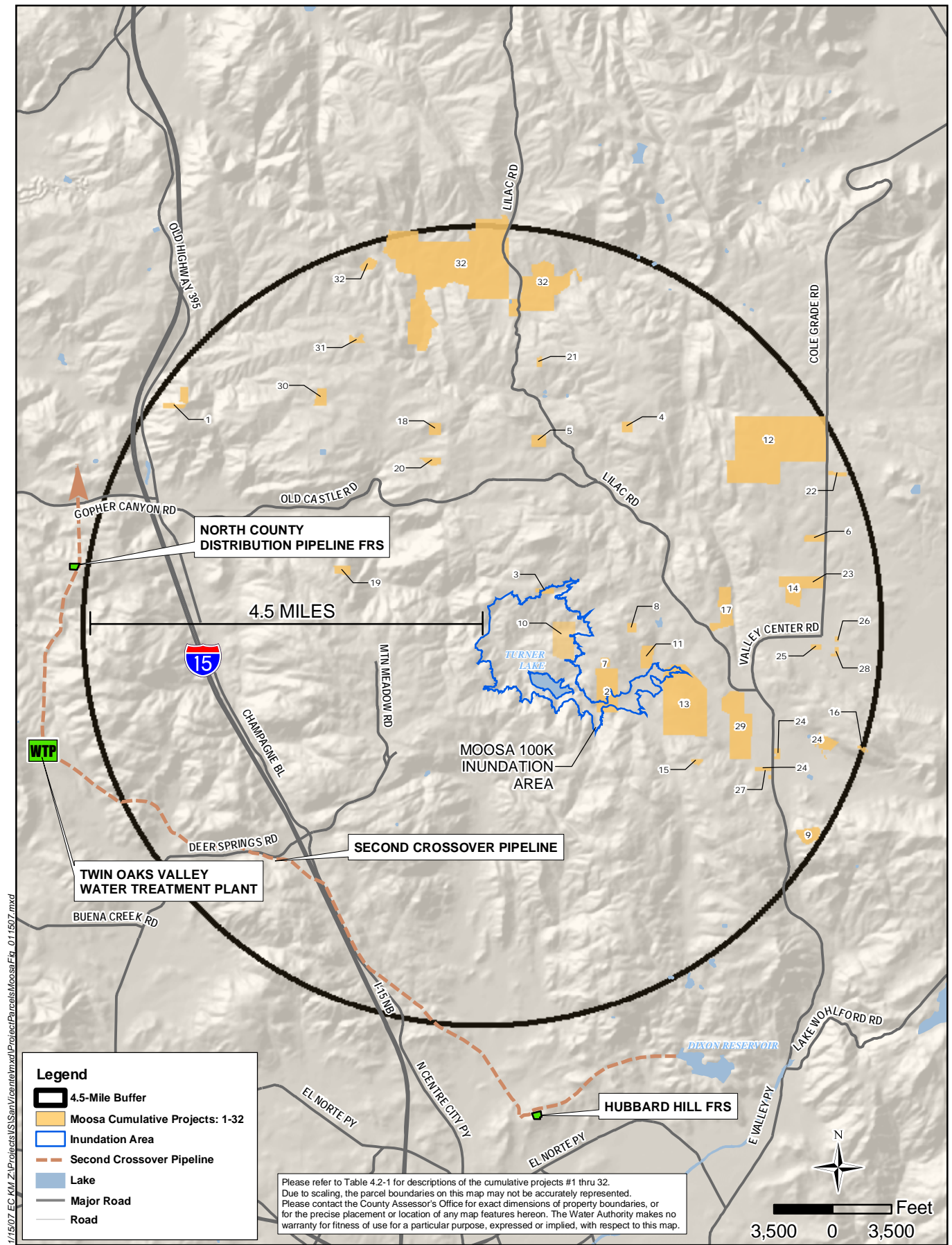
Cumulative Project Number	Permit Type - Description	Permit Number	APN	Address	Project Description
	Major Use Permit	97-013	189-350-08-00	14103 Winged Foot	
	Major Use Permit	97-013	189-350-09-00	14104 Winged Foot	
	Major Use Permit	97-013	189-350-10-00	14116 Winged Foot	
	Major Use Permit	97-013	189-350-11-00	14128 Winged Foot	
	Major Use Permit	97-013	189-350-12-00	14140 Winged Foot	
	Major Use Permit	97-013	189-350-13-00	14152 Winged Foot	
	Major Use Permit	97-013	189-350-14-00	14164 Winged Foot	
	Major Use Permit	97-013	189-350-15-00	14176 Winged Foot	
	Major Use Permit	97-013	189-350-16-00	14188 Winged Foot	
	Major Use Permit	97-013	189-350-17-00	No Address	
	Major Use Permit	97-013	189-350-18-00	No Address	
	Major Use Permit	97-013	189-360-01-00	26956 Saint Andrews	
25	Site Plan	02-071	188-260-35-00	28512 Cole Grade	80,000 square foot mini storage facility on 1.36 acres expanding to 6 acres.
26	Site Plan	03-021	188-250-14-00	No Address	1.63-acre automotive shop.
27	Site Plan	03-023	186-270-11-00	27406 Valley Center	Gas station and convenience store on 1.45 acres.
28	Site Plan	03-026	188-250-41-00	No Address	Development of a rental storage complex on a 3.96-acre parcel consisting of 8 self-storage buildings and an office building.
29	General Plan Amendment	04-012	186-210-44-00	No Address	Environmental Impact Report: Subdivision of 118.3 acres to create 248 single-family homes, 1 town home lot with 52 dwelling units, 2 recreational lots, a floodplain and open space. In addition Orchard Run will have a dedicated Wastewater Treatment Plant located on approx 4.6 acres.
	General Plan Amendment	04-012	186-231-19-00	28290 Lilac	
	General Plan Amendment	04-012	186-240-01-00	13675 Old	
	General Plan Amendment	04-012	186-240-02-00	No Address	
30	Tentative Parcel Map	20811	129-390-17-00	9770 Circle R	Minor subdivision of 15.6 acres into 4 lots ranging from 2.18 to 4 acres and a 40-foot road.
31	Tentative Parcel Map - Standard	20950	129-380-34-00	10015 Lilac	Minor subdivision of 9.64 acres into 4 lots ranging from 2.28 to 2.7 acres
32	Major Use Permit - Standard	04-038	128-521-08-00	No Address	Lilac Ranch: 957.5 acres subdivided into a maximum of 354 single-family units ranging from 0.5 to 1.6 acres, a 5-acre recreation facility, and a wastewater treatment plant to process wastewater generated by the new residential units.
	Tentative Map	5385	128-230-46-00	31928 Lilac	
	Tentative Map	5385	128-230-47-00	No Address	
	Tentative Map	5385	128-360-22-00	No Address	
	Tentative Map	5385	128-510-05-00	32011 Lilac	
	Tentative Map	5385	128-522-30-00	No Address	
	Tentative Map	5385	129-040-04-00	No Address	
	Tentative Map	5385	129-200-06-00	No Address	
Tentative Map	5385	129-320-01-00	No Address		

Source: County of San Diego, 2007

**Table 4.2-2. Cumulative Impact Study Areas by Environmental Issue
for the Moosa 100K Alternative**

Environmental Issue	Geographic Scope	Rationale
Aesthetics/Visual Quality	4.5-mile cumulative projects study area (Figure 4.2-1)	Areas within the vicinity of Moosa 100K footprint viewsheds (refer to Figure 4.3-1 in Section 4.3 [Aesthetics/Visual Quality] of this EIR/EIS).
Agricultural Resources	4.5-mile cumulative projects study area (Figure 4.2-1)	Local impacts on designated farmlands.
Air Quality	San Diego Air Basin (SDAB)	Criteria pollutant air emissions may disperse anywhere throughout the entire SDAB due to meteorological conditions (e.g., wind, temperature inversions, weather patterns, etc.).
Biological Resources	4.5-mile cumulative projects study area (Figure 4.2-1)	Local impacts on sensitive habitats and species.
Cultural Resources	4.5-mile cumulative projects study area (Figure 4.2-1)	Local impacts on NRHP sites.
Geology/Soils	Southern California region	Potential seismic sources.
Land Use/Planning	Lands immediately adjacent to Moosa 100K study area boundaries	Conflicts with adjacent land uses.
Mineral Resources	San Diego County	Local utilization of mineral resources relative to county-wide availability.
Noise/Vibration	Residences located approximately 200 feet from the I-15 pipeline tunnel portal, and 1,500 feet from the Moosa 100K dam construction zone, along with nearby cumulative projects within the 4.5-mile cumulative projects study area (Figure 4.2-1)	Nearest noise-sensitive residential receptors to blasting (I-15 pipeline tunnel portal) and construction (Moosa 100K dam) noise levels.
Paleontological Resources	4.5-mile cumulative projects study area (Figure 4.2-1)	Local impacts on paleontological resources.
Public Safety/Hazardous Materials	Moosa Creek downstream of Moosa Dam, and San Luis Rey River floodplain to the Pacific Ocean	Impacts from catastrophic dam failure, and subsequent flooding.
Public Services/Utilities	4.5-mile cumulative projects study area (Figure 4.2-1)	Local impacts on emergency services response times and potential utility conflicts.
Recreation	4.5-mile cumulative projects study area (Figure 4.2-1)	Impacts on Aerie Park Equestrian Facility and planned trails within and adjacent to the Moosa 100K footprint.
Traffic/Circulation	4.5-mile cumulative projects study area (Figure 4.2-1)	Impacts on local street segments and intersections.
Water Resources	San Luis Rey Hydrologic Unit	Water quality impacts on beneficial uses, as defined by the Comprehensive Water Quality Control Plan for the San Diego Region (RWQCB, 1994), downstream of Moosa Dam.

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SanGIS, 2006

CUMULATIVE PROJECTS ASSOCIATED WITH THE MOOSA 100K ALTERNATIVE

FIGURE 4.2-1

