

TABLE OF CONTENTS

<u>Section Name and Title</u>	<u>Page</u>
SUMMARY	
S.1 <u>Project Synopsis</u>	S-1
S.2 <u>Summary of Significant Effects and Mitigation Measures that Reduce or Avoid the Significant Effects</u>	S-1
S.3 <u>Areas of Controversy</u>	S-2
S.4 <u>Issues to be Resolved by the Decision-Making Body</u>	S-2
S.5 <u>Project Alternatives</u>	S-3
CHAPTER 1.0	
PROJECT DESCRIPTION, LOCATION AND ENVIRONMENTAL SETTING	1-1
1.1 <u>Project Description and Location</u>	1-1
1.1.1 Precise Location/Boundary	1-1
1.1.2 Project’s Component Parts	1-1
1.1.3 Technical, Economic, and Environmental Characteristics	1-7
1.2 <u>Project Objectives</u>	1-11
1.3 <u>Intended Uses of the EIR</u>	1-11
1.3.1 Matrix of Project Approvals/Permits.....	1-12
1.3.2 Related Environmental Review and Consultation Requirements.....	1-13
1.4 <u>Environmental Setting</u>	1-14
1.5 <u>Consistency of Project with Applicable Regional and General Plans</u>	1-16
1.6 <u>List of Past, Present, and Reasonably Anticipated Future Projects in the Project Area</u>	1-16
1.7 <u>Growth Inducing Effects</u>	1-17
CHAPTER 2.0	
SIGNIFICANT ENVIRONMENTAL EFFECTS WHICH CANNOT BE AVOIDED IF THE PROPOSED PROJECT IS IMPLEMENTED	2-1
2.1 <u>Aesthetics/Visual Quality</u>	2-1
2.1.1 Existing Conditions	2-1
2.1.2 Guidelines for the Determination of Significance.....	2-6
2.1.3 Analysis of Project Effects and Determination as to Significance.....	2-7
2.1.4 Cumulative Impact Analysis	2-19
2.1.5 Mitigation Measures.....	2-20
2.1.6 Conclusions	2-22

<u>Section Name and Title</u>	<u>Page</u>
CHAPTER 3.0	
SIGNIFICANT ENVIRONMENTAL EFFECTS OF THE PROPOSED PROJECT WHICH CAN BE MITIGATED.....	3-1
3.1 <u>Air Quality</u>	3-1
3.1.1 Existing Conditions	3-1
3.1.2 Guidelines for the Determination of Significance.....	3-2
3.1.3 Analysis of Project Effects and Determination as to Significance.....	3-2
3.1.4 Cumulative Impact Analysis	3-11
3.1.5 Mitigation Measures	3-12
3.1.6 Conclusions	3-14
3.2 <u>Biological Resources</u>	3-15
3.2.1 Existing Conditions	3-15
3.2.2 Guidelines for the Determination of Significance.....	3-15
3.2.3 Analysis of Project Effects and Determination as to Significance.....	3-16
3.2.4 Cumulative Impact Analysis	3-25
3.2.5 Mitigation Measures.....	3-30
3.2.6 Conclusions	3-35
3.3 <u>Hydrology and Water Quality</u>	3-39
3.3.1 Existing Conditions	3-39
3.3.2 Guidelines for the Determination of Significance.....	3-40
3.3.3 Analysis of Project Effects and Determination as to Significance.....	3-40
3.3.4 Cumulative Impact Analysis	3-45
3.3.5 Mitigation Measures Proposed to Minimize the Significant Effects.....	3-45
3.3.6 Conclusions	3-45
3.4 <u>Noise</u>	3-50
3.4.1 Existing Conditions	3-50
3.4.2 Guidelines for the Determination of Significance.....	3-51
3.4.3 Analysis of Project Effects and Determination as to Significance.....	3-51
3.4.4 Cumulative Impact Analysis	3-56
3.4.5 Mitigation Measures Proposed to Minimize the Significant Effects.....	3-57
3.4.6 Conclusions	3-59
3.5 <u>Traffic/Transportation</u>	3-64
3.5.1 Existing Conditions	3-64
3.5.2 Guidelines for the Determination of Significance.....	3-68
3.5.3 Analysis of Project Effects and Determination as to Significance.....	3-70
3.5.4 Cumulative Impact Analysis	3-81
3.5.5 Mitigation Measures.....	3-82
3.5.8 Conclusions	3-83
CHAPTER 4.0	
ENVIRONMENTAL EFFECTS FOUND NOT TO BE SIGNIFICANT.....	4-1
4.1 <u>Effects Found Not Significant as Part of the EIR Process</u>	4-1

<u>Section Name and Title</u>	<u>Page</u>
4.1.1 Hazards and Hazardous Materials.....	4-1
4.1.1.1 Existing Conditions	4-1
4.1.1.2 Guidelines for the Determination of Significance.....	4-1
4.1.1.3 Analysis of Project Effects and Determination as to Significance.....	4-2
4.1.1.4 Cumulative Impact Analysis	4-4
4.1.1.5 Conclusions	4-5
4.1.2 Land Use and Planning	4-5
4.1.2.1 Existing Conditions	4-5
4.1.2.2 Guidelines for the Determination of Significance.....	4-6
4.1.2.3 Analysis of Project Effects and Determination as to Significance	4-7
4.1.2.4 Cumulative Impact Analysis	4-11
4.1.2.5 Conclusions.....	4-11
4.1.3 Public Services.....	4-11
4.1.3.1 Existing Conditions	4-11
4.1.3.2 Guidelines for the Determination of Significance	4-14
4.1.3.3 Analysis of Project Effects and Determination as to Significance.....	4-14
4.1.3.4 Cumulative Impact Analysis	4-17
4.1.3.5 Conclusions	4-18
4.1.4 Recreation.....	4-18
4.1.4.1 Existing Conditions.....	4-18
4.1.4.2 Guidelines for the Determination of Significance	4-20
4.1.4.3 Analysis of Project Effects and Determination as to Significance	4-20
4.1.4.4 Cumulative Impact Analysis.....	4-21
4.1.4.5 Conclusions.....	4-22
4.1.5 Utilities and Service Systems.....	4-22
4.1.5.1 Existing Conditions.....	4-22
4.1.5.2 Guidelines for the Determination of Significance	4-23
4.1.5.3 Analysis of Project Effects and Determination as to Significance	4-23
4.1.5.4 Cumulative Impact Analysis.....	4-25
4.1.5.5 Conclusions.....	4-25
4.2 Effects Found Not Significant During Initial Study	4-25
4.2.1 Agriculture.....	4-25
4.2.2 Cultural Resources.....	4-25
4.2.3 Geology and Soils.....	4-25
4.2.4 Minerals.....	4-26
4.2.5 Population and Housing	4-26
CHAPTER 5.0	
ALTERNATIVES TO THE PROPOSED PROJECT	5-1
5.1 Rationale for Alternative Selection	5-1
5.2 Analysis of the No Development Alternative.....	5-2

<u>Section Name and Title</u>	<u>Page</u>
5.2.1 No Development Alternative Description and Setting	5-2
5.2.2 Comparison of the Effects of the No Development Alternative to the Proposed Project.....	5-2
5.2.3 Rationale for Preference of Proposed Project over the No Development Alternative.....	5-4
5.3 <u>Analysis of the No Project Alternative</u>.....	5-4
5.3.1 No Project Alternative Description and Setting	5-4
5.3.2 Comparison of the Effects of the No Project Alternative to the Proposed Project.....	5-4
5.3.3 Rationale for Preference of Proposed Project over the “No Project” Alternative	5-6
5.4 <u>Analysis of the Reduced Grading/Environmentally Superior Alternative</u>.....	5-7
5.4.1 Reduced Grading Alternative Description and Setting	5-7
5.4.2 Comparison of the Effects of Reduced Grading Alternative to the Proposed Project.....	5-7
5.4.3 Rationale for Preference of the Proposed Project over the Reduced Grading Alternative	5-9
5.5 <u>Analysis of the Reduced Footprint/Maximum Density Alternative</u>	5-9
5.5.1 Reduced Footprint/Maximum Density Alternative Description and Setting.....	5-9
5.5.2 Comparison of the Effects of the Reduced Grading Footprint/Maximum Density Alternative to the Proposed Project	5-9
5.5.3 Rationale for the Preference of the Proposed Project over the Reduced Grading Footprint/Maximum Density Alternative	5-12
5.6 <u>Analysis of the Reduced Project Alternative</u>.....	5-12
5.6.1 Reduced Project Alternative Description and Setting	5-12
5.6.2 Comparison of the Effects of the Reduced Project Alternative to the Proposed Project.....	5-12
5.6.3 Rationale for the Preference of Proposed Project over the Reduced Project Alternative.....	5-14
5.7 <u>Analysis of the Reduced Visibility Alternative</u>.....	5-14
5.7.1 Reduced Visibility Alternative Description and Setting	5-14
5.7.2 Comparison of the Effects of the Reduced Visibility Alternative to the Proposed Project.....	5-14
5.7.3 Rationale for the Preference of the Proposed Project over the Reduced Visibility Alternative	5-16
CHAPTER 6.0	
LIST OF REFERENCES	6-1
CHAPTER 7.0	
LIST OF EIR PREPARERS AND PERSONS AND ORGANIZATIONS CONTACTED.....	7-1

Section Name and Title **Page**

CHAPTER 8.0
LIST OF MITIGATION MEASURES AND ENVIRONMENTAL
DESIGN CONSIDERATIONS.....8-1

TECHNICAL APPENDICES (bound under separate cover)

- A. Initial Study, Notice of Preparation (NOP), and NOP Comment Letters**
- B. Traffic Study**
- C. Visual Impact Report**
- D. Air Quality Report**
- E. Biological Technical Report**
- F. Acoustical and Vibration Site Assessment**
- G1. Hydrology Report**
- G2. Storm Water Management Plan**
- H. Cultural Resources Report**
- I. Geotechnical Report**
- J. Fire Protection Plan**
- K. Specific Plan Amendment**
- L. Conceptual Sewer Capacity Study and Feasibility**
- M. Written Correspondence**

<u>Figure Number and Title</u>	<u>Page</u>
Figure 1-1 Regional Location Map.....	1-26
Figure 1-2 Vicinity Map	1-27
Figure 1-3 Aerial Photograph	1-28
Figure 1-4 Specific Plan Land Use Plan.....	1-29
Figure 1-5 Panorama Ridge SPA Land Use Plan	1-30
Figure 1-6 Trails Plan	1-31
Figure 1-7 Circulation Plan	1-32
Figure 1-8 Conceptual Phasing Plan.....	1-33
Figure 1-9 Conceptual Grading Plan	1-34
Figure 1-10 Open Space and Fencing Plan.....	1-35
Figure 1-11 Tentative Map Sheet 1	1-36
Figure 1-12 Tentative Map Sheet 2	1-37
Figure 1-13 Location of Proposed Retaining Walls	1-38
Figure 1-14 MUP Plot Plan Sheet 1	1-39
Figure 1-15 MUP Plot Plan Sheet 2	1-40
Figure 1-16 MUP Architectural Guidelines (1 of 3).....	1-41
Figure 1-17 MUP Architectural Guidelines (2 of 3).....	1-42
Figure 1-18 MUP Architectural Guidelines (3 of 3).....	1-43
Figure 1-19 Site Topography	1-44
Figure 1-20 Slope Analysis	1-45
Figure 1-21 Soil Types and Location	1-46
Figure 1-22 Cumulative Projects	1-47
Figure 2-1 Photographic Inventory Key Map.....	2-23
Figure 2-2 Spring Valley Vantage Points (1 of 3).....	2-24
Figure 2-3 Spring Valley Vantage Points (2 of 3).....	2-25
Figure 2-4 Spring Valley Vantage Points (3 of 3).....	2-26
Figure 2-5 La Presa Viewshed Vantage Photos.....	2-27
Figure 2-6 Lemon Grove Viewshed Vantage Photos	2-28
Figure 2-7 La Mesa Viewshed Vantage Photos.....	2-29
Figure 2-8 Casa de Oro Viewshed Vantage Photos.....	2-30
Figure 2-9 Line of Site.....	2-31
Figure 2-10 Grading Cross-Sections Key Map.....	2-32
Figure 2-11 Grading Cross Sections.....	2-33
Figure 2-12 Retaining Wall Use in the Surrounding Community (1 of 2).....	2-34
Figure 2-13 Retaining Wall Use in the Surrounding Community (2 of 2).....	2-35
Figure 2-14 Elevation of Retaining Walls 4 and 5	2-36
Figure 2-15 Surrounding Hillside Development	2-37
Figure 2-16 Mass Grading in Spring Valley.....	2-38
Figure 2-17 Spring Valley/La Mesa Photo Simulation	2-39
Figure 2-18 Spring Valley Photo Simulation	2-40
Figure 2-19 Spring Valley/Casa de Oro Photo Simulation (High School).....	2-41
Figure 2-20 Spring Valley/Casa de Oro Viewshed Photo Simulation – Via del Parque Park.....	2-42
Figure 2-21 La Presa Photo Simulation (1 of 2).....	2-43
Figure 2-22 La Presa Photo Simulation (2 of 2).....	2-44
Figure 2-23 Lemon Grove Viewshed Photo Simulation	2-45
Figure 2-24 Casa de Oro Viewshed Photo Simulation	2-46

<u>Figure Number and Title</u>	<u>Page</u>
Figure 3-1 Biological Resources Map	3-36
Figure 3-2 Impacts to Biological Resources.....	3-37
Figure 3-3 Off-Site Impacts to Biological Resources.....	3-38
Figure 3-4 Existing Hydrology	3-47
Figure 3-5 BMP-Erosion Control Map.....	3-48
Figure 3-6 Proposed Hydrology	3-49
Figure 3-7 Noise Monitoring Locations	3-60
Figure 3-8 Proposed 60 dBA CNEL Ground Trace Contours.....	3-61
Figure 3-9 Residential Receptors.....	3-62
Figure 3-10 Anticipated Noise Contours from Rock Crushing Operations.....	3-63
Figure 3-11 Existing Lane Configurations	3-85
Figure 3-12 Existing Traffic Volumes.....	3-86
Figure 3-13 Project Trip Distribution	3-87
Figure 3-14 Project Related Traffic	3-88
Figure 3-15 Existing Plus Project Traffic	3-89
Figure 3-16 Near Term Cumulative Traffic with Project	3-90
Figure 3-17 Year 2030 Traffic.....	3-91
Figure 4-1 Public Facilities Location Map	4-27
Figure 4-2 Regional Recreation Opportunities	4-28
Figure 4-3 Proposed 1.03-Acre Private Park	4-29
Figure 4-4 Proposed 0.35-Acre Park	4-30
Figure 5-1 No Development Alternative	5-18
Figure 5-2 No Project Alternative	5-19
Figure 5-3 Reduced Grading Alternative	5-20
Figure 5-4 Reduced Footprint/Maximum Density Alternative.....	5-21
Figure 5-5 Reduced Project Alternative	5-22
Figure 5-6 Reduced Visibility Alternative.....	5-23

<u>Table Number and Title</u>	<u>Page</u>
Table S	Summary of Significant Effects..... S-5
Table 1-1	Comparison of Approved and Proposed Specific Plan Statistics 1-2
Table 1-2	Matrix of Project Approvals 1-13
Table 1-3	Consistency with Applicable Regional and General Plans 1-17
Table 1-4	Cumulative Projects 1-19
Table 1-5	Cumulative Projects' CEQA Summary 1-21
Table 2-1	Summary of Project Site Slope Gradients..... 2-2
Table 3-1	Thresholds of Significance for Air Quality Impacts 3-4
Table 3-2	Predicted Aggregate Construction Equipment Emissions – Rough Grading/Hauling 3-4
Table 3-3	Predicted Onsite Rock Crusher Emissions..... 3-5
Table 3-4	Predicted Vehicle Trip Emissions 3-6
Table 3-5	Roadway Distance to Service Centers 3-7
Table 3-6	CO Dispersion Results 3-7
Table 3-7	NOx Dispersion Results..... 3-8
Table 3-8	PM10 Dispersion Results..... 3-8
Table 3-9	Aggregated Construction Emissions 3-10
Table 3-10	Aggregated Operational Emissions..... 3-10
Table 3-11	Habitat Impacts 3-18
Table 3-12	Summary of Biological Resources Cumulative Analysis 3-28
Table 3-13	Drainage Basin Summary (100-Year Storm)..... 3-44
Table 3-14	Measured Ambient Sound Levels 3-50
Table 3-15	Predicted Construction Noise Levels (No Drills) 3-53
Table 3-16	Predicted Construction Noise Levels (With Drills) 3-53
Table 3-17	Onsite Transportation Noise Levels..... 3-55
Table 3-18	Project Related Offsite Traffic Noise Increase 3-55
Table 3-19	Level of Service (LOS) Ranges 3-64
Table 3-20	Existing Conditions Roadway Segment Summary 3-67
Table 3-21	Existing Conditions Intersection Analysis 3-68
Table 3-22	Measures of Significant Project Impacts/Allowable Increases on Congested Roads & Intersections 3-70
Table 3-23	Project Trip Generation..... 3-72
Table 3-24	Existing Plus Project Roadway Segment Level of Service Summary 3-73
Table 3-25	Existing Plus Project Intersection Level Of Service Summary 3-74
Table 3-26	Near Term Cumulative Roadway Segment Level of Service Summary..... 3-75
Table 3-27	Near Term Cumulative Intersection Level of Service Summary 3-76
Table 3-28	Future 2030 Roadway Segment Level of Service Summary 3-77
Table 4-1.	Pre- and Post-Project Slope Gradients 4-9
Table 4-2.	Fire Stations Servicing Highlands Ranch 4-12
Table 4-3.	School Enrollment, Capacity, and Student Generation..... 4-15
Table 4-4.	Project Library Demand..... 4-16
Table 4-5.	Estimated Solid Waste Generation 4-16
Table 4-6.	Local Parks..... 4-19
Table 5-1	Comparison of Project Alternative Impacts to Significant Proposed Project Impacts..... 5-17

List of Acronyms

ADT	Average Daily Traffic
AMSL	Average mean sea level
ANSI	American National Standards Institute
APCD	Air Pollution Control District
AQIA	Air Quality Impact Assessments
AQMP	Air Quality Management Plan
BMO	County Biological Mitigation Ordinance
BMP(s)	Best Management Practice(s)
BRCA	Biological Resource Core
CAAQS	California Ambient Air Quality Standards
CALVENO	California Noise Emissions
CARB	California Air Resources Board
CCR	California Code of Regulations
CDFG	California Department of Fish and Game
CEQA	California Environmental Quality Act
cfs	cubic feet per second
CIP	Capital Improvement Project
CMP	Congestion Management Program
CNEL	Community Noise Equivalent Level
CO	Carbon Monoxide
CSS	Coastal sage scrub vegetation
CUDA	Current Urban Development Area
CWA	Federal Clean Water Act
dB	Decibels
dBA	Average hourly decibels
DPLU	Department of Planning and Land Use
DPW	Department of Public Works
DSEIR	Draft Subsequent Environmental Impact Report
du/ac	Dwelling unit per acre
DUs	Dwelling Units
EDA	Estate Development Area
EIR	Environmental Impact Report
EPA	Environmental Protection Agency
EPE	Estimated Position Error
FAHJ	Fire Authority Having Jurisdiction
FEMA	Federal Emergency Management Agency
FHWA	Federal Highway Administration
FPD	Fire Protection District
General Plan	San Diego County General Plan
GIS	Geographic Information System
GUHSD	Grossmont Union High School District
HCM	Highway Capacity Manual
HDT	Heavy Duty Trucks
HP	Horsepower

List of Acronyms

HVAC	Heating, Ventilation and Air Conditioning
H2S	Hydrogen Sulfide
I-125	Interstate Highway 125
IS	Initial Study
ISE	Investigative Science and Engineering
kWh/yr	Kilowatt hours per year
LBZ	Limited Building Zone
LDA	Light Duty Autos
LDT	Light Duty Trucks
Leq	Equivalent sound level
LLC	Limited Liability Company
LMSVSD	La Mesa/Spring Valley School District
LOS	Level of Service
MCL	Maximum Contaminant Levels
MCY	Motorcycles
MDT	Medium Duty Trucks
mg	million gallons
mgd	million gallons per day
MND	Mitigated Negative Declaration
MOU	Memorandum of Understanding
Mph	Miles per hour
MRZ	Mineral Resource Zone
MSCP	Multiple Species Conservation Plan
MSL	Mean Sea Level
MSS	Metropolitan Sewer System
MUP	Major Use Permit
MWD	Metropolitan Water District of Southern California
NAAQS	National Ambient Air Quality Standards
NCCP	Natural Community Conservation Plan
NCFPD	North County Fire Protection District
ND	Negative Declaration
NPDES	National Pollutant Discharge Elimination System
NSA	Noise Sensitive Area
NOP	Notice of Preparation
NO2	Nitrogen Dioxide
NOx	Nitrogen Oxides
O3	Ozone
OWD	Otay Water District
P02-023	Major Use Permit
PAHJ	Planning Authority Having Jurisdiction
PAMA	Pre-Approved Mitigation Area
PDP	Private Development Permit
PLWTP	Point Loma Wastewater Treatment Plant
PM10	respirable 10-micron particulate matter

List of Acronyms

ppm	parts per million
PRC	Public Resources Code
PRD	Planning Residential Development
Q	Stormwater flow
RAQS	Regional Air Quality Strategy
REC	REC Environmental Consultants, Inc.
ROC	Reactive Organic Compounds
ROG	Reactive Organic Gases
RPO	County of San Diego Resource Protection Ordinance
RR2	Rural Residential zoning
RWQCB	California Regional Water Quality Control Board
S88	Specific Plan Area zoning
SANDAG	San Diego Association of Governments
SCAB	South Coast Air Basin
SCAQMD	South Coast Air Quality Management District
SCH	State Clearing House
SDAB	San Diego Air Basin
SDG & E	San Diego Gas & Electric
SDAPCD	San Diego Air Pollution Control District
SEIR	Subsequent Environmental Impact Report
SIP	State Implementation Plan
SMCFPD	San Miguel Consolidated Fire Protection District
SO2	Sulfur Dioxide
SOx	Sulfur Oxides
SP	Specific Plan
SPA	Specific Plan Amendment
SPL	Sound Pressure Level
SR-94	State Route 94
SVCP	Spring Valley Community Plan
SVSD	Spring Valley Sanitation District
SVSPD	Spring Valley Sewer Protection District
SWA	Sweetwater Authority
SWPPP	Storm Water Pollution Prevention Plan
TIF	Traffic Impact Fee
TM	Tentative Map
UBUS	Buses
USFWS	United States Fish and Wildlife Service
V/C	Volume to Capacity
VOC	Volatile Organic Compounds
WRMP	Water Resources Master Plan