TABLE OF CONTENTS

1.0 INTRODUCTION

1.1 Type and Purpose of EIR/EIS ........................................................................ 1-1
1.2 Scope of EIR/EIS and Effects Found Not to Be Significant ............................ 1-1
1.3 Definition of Baseline .................................................................................. 1-5
1.4 Significance Criteria .................................................................................... 1-5
1.5 Project Background and History ................................................................... 1-6
1.6 Project Review and Environmental Process .................................................. 1-8
1.7 Public Involvement ...................................................................................... 1-11
1.8 Definition of Terms ..................................................................................... 1-13

2.0 EXECUTIVE SUMMARY

2.1 Project Location ........................................................................................... 2-1
2.2 Summary of the Proposed Project and Alternatives to Be Considered .......... 2-2
2.3 Environmental Impacts and Recommended Mitigation Summary ............... 2-4
2.4 Areas of Known Controversy and Issues to be Resolved ......................... 2-47

3.0 DESCRIPTION OF PROPOSED PROJECT AND ALTERNATIVES

3.1 Project Area Location and Characteristics .................................................... 3-1
3.2 Project Objectives ....................................................................................... 3-8
3.3 Agency Alternative Requirements ................................................................. 3-9
3.4 Alternatives Considered But Rejected .......................................................... 3-10
3.5 Alternative 1 – Proposed Project ................................................................. 3-16
3.6 Alternative 2 – No Project (Existing Conditions) ........................................... 3-48
3.7 Alternative 3 – No Code Amendment for Building Height ......................... 3-48
3.8 Alternative 4 – Close Ski Resort – Estate Lots ............................................. 3-53
3.9 Alternative 5 – Compact Project Area .......................................................... 3-55
3.10 Alternative 6 – Reduced Project ................................................................. 3-63
3.11 Intended Uses of the EIR/EIS ..................................................................... 3-71
3.12 Regulatory Compliance Measures ............................................................... 3-71
3.13 Required Permits and Approvals ................................................................. 3-78
3.14 Summary of Alternatives ............................................................................ 3-80

4.0 RELATIONSHIP TO EXISTING LAND USE PLANS, POLICIES, AND
REGULATIONS

4.1 Federal ......................................................................................................... 4-1
4.2 Regional - Tahoe Regional Planning Agency ............................................... 4-1
4.3 Placer County .............................................................................................. 4-51

5.0 ENVIRONMENTAL ANALYSIS

5.1 Environmental Settings ............................................................................... 5-1
5.2 Regulatory Settings ..................................................................................... 5-1
5.3 Evaluation Criteria with Points of Significance ............................................ 5-1
10.5 Cumulative Impacts and Mitigation Measures ........................................... 5-1
10.4 Environmental Impacts and Recommended Mitigation ................................. 5-1
10.3 Evaluation Criteria With Points of Significance .............................................. 10
10.2 Regulatory Setting ..................................................................................... 10
10.1 Environmental Setting ................................................................................ 10

6.0 LAND USE

6.1 Environmental Setting ................................................................................. 6-1
6.2 Regulatory Setting ...................................................................................... 6-3
6.3 Evaluation Criteria With Points of Significance ............................................ 6-13
6.4 Environmental Impacts and Recommended Mitigation .................................. 6-14
6.5 Cumulative Impacts and Mitigation Measures .............................................. 6-44
6.6 References .................................................................................................. 6-46

7.0 POPULATION, EMPLOYMENT AND HOUSING

7.1 Environmental Setting ................................................................................. 7-1
7.2 Regulatory Setting ...................................................................................... 7-6
7.3 Evaluation Criteria With Points of Significance ............................................ 7-6
7.4 Environmental Impacts and Recommended Mitigation .................................. 7-7
7.5 Cumulative Impacts and Mitigation Measures .............................................. 7-19
7.6 References .................................................................................................. 7-20

8.0 BIOLOGICAL RESOURCES (Wildlife, Fisheries, Vegetation and SEZ Habitat)

8.1 Environmental Setting ................................................................................. 8-1
8.2 Regulatory Setting ...................................................................................... 8-32
8.3 Evaluation Criteria With Points of Significance ............................................ 8-50
8.4 Environmental Impacts and Recommended Mitigation .................................. 8-54
8.5 Cumulative Impacts and Mitigation Measures .............................................. 8-74
8.6 References .................................................................................................. 8-75

9.0 CULTURAL RESOURCES

9.1 Environmental Setting ................................................................................. 9-1
9.2 Regulatory Setting ...................................................................................... 9-5
9.3 Evaluation Criteria With Points of Significance ............................................ 9-8
9.4 Environmental Impacts and Recommended Mitigation .................................. 9-9
9.5 Cumulative Impacts and Mitigation Measures .............................................. 9-12
9.6 References .................................................................................................. 9-13

10.0 VISUAL RESOURCES

10.1 Environmental Setting ................................................................................. 10-1
10.2 Regulatory Setting ...................................................................................... 10-23
10.3 Evaluation Criteria With Points of Significance ............................................ 10-26
10.4 Environmental Impacts and Recommended Mitigation .................................. 10-28
10.5 Cumulative Impacts and Mitigation Measures .............................................. 10-72
10.6 References .................................................................................................. 10-73
# TABLE OF CONTENTS

## 11.0 TRANSPORTATION AND CIRCULATION

- 11.1 Environmental Setting ................................................................. 11-1
- 11.2 Regulatory Setting ..................................................................... 11-16
- 11.3 Evaluation Criteria With Points of Significance .......................... 11-23
- 11.4 Project Analysis Methodology ..................................................... 11-25
- 11.5 Environmental Impacts and Recommended Mitigation ............... 11-57
- 11.6 Cumulative Conditions Analysis Methodology ......................... 11-84
- 11.7 Cumulative Impacts and Mitigation Measures ........................... 11-88
- 11.8 References .................................................................................. 11-106

## 12.0 AIR QUALITY

- 12.1 Environmental Setting ................................................................. 12-1
- 12.2 Regulatory Setting ..................................................................... 12-14
- 12.3 Evaluation Criteria With Points of Significance .......................... 12-19
- 12.4 Environmental Impacts and Recommended Mitigation ............... 12-21
- 12.5 Cumulative Impacts and Mitigation Measures ........................... 12-50
- 12.6 References .................................................................................. 12-52

## 13.0 NOISE

- 13.1 Environmental Setting ................................................................. 13-1
- 13.2 Regulatory Setting ..................................................................... 13-9
- 13.3 Evaluation Criteria With Points of Significance .......................... 13-15
- 13.4 Project Analysis Methodology ..................................................... 13-17
- 13.5 Cumulative Impacts and Mitigation Measures ........................... 13-38
- 13.6 References .................................................................................. 13-39

## 14.0 SOILS, GEOLOGY, AND SEISMICITY

- 14.1 Environmental Setting ................................................................. 14-1
- 14.2 Regulatory Setting ..................................................................... 14-24
- 14.3 Evaluation Criteria With Points of Significance .......................... 14-36
- 14.4 Environmental Impacts and Recommended Mitigation ............... 14-37
- 14.5 Cumulative Impacts and Mitigation Measures ........................... 14-79
- 14.6 References .................................................................................. 14-81

## 15.0 HYDROLOGY, WATER RIGHTS, SURFACE WATER QUALITY, AND GROUNDWATER

- 15.1 Environmental Setting ................................................................. 15-1
- 15.2 Regulatory Setting ..................................................................... 15-27
- 15.3 Evaluation Criteria With Points of Significance .......................... 15-45
- 15.4 Environmental Impacts and Recommended Mitigation ............... 15-48
- 15.5 Cumulative Impacts and Mitigation Measures ........................... 15-119
- 15.6 References .................................................................................. 15-124
# 16.0 PUBLIC SERVICES AND UTILITIES

- Environmental Setting ................................................................. 16-1
- Regulatory Setting ........................................................................ 16-6
- Evaluation Criteria With Points of Significance ............................. 16-12
- Environmental Impacts and Recommended Mitigation .................. 16-13
- Cumulative Impacts and Mitigation Measures ............................... 16-30
- References .................................................................................... 16-31
- Correspondence and Contacts ..................................................... 16-33

# 17.0 HAZARDOUS MATERIALS AND PUBLIC SAFETY

- Environmental Setting ................................................................. 17-1
- Regulatory Setting ........................................................................ 17-5
- Evaluation Criteria With Points of Significance ............................. 17-11
- Environmental Impacts and Recommended Mitigation .................. 17-13
- Cumulative Impacts and Mitigation Measures ............................... 17-19
- References .................................................................................... 17-20

# 18.0 RECREATION

- Environmental Setting ................................................................. 18-1
- Regulatory Setting ........................................................................ 18-2
- Evaluation Criteria With Points of Significance ............................. 18-11
- Environmental Impacts and Recommended Mitigation .................. 18-12
- Cumulative Impacts and Mitigation Measures ............................... 18-20
- References .................................................................................... 18-21

# 19.0 CLIMATE CHANGE

- Environmental Setting ................................................................. 19-1
- Regulatory Setting ........................................................................ 19-9
- Evaluation Criteria With Points of Significance ............................. 19-18
- Environmental Impacts and Recommended Mitigation .................. 19-18
- Cumulative Impacts and Mitigation Measures ............................... 19-42
- References .................................................................................... 19-50

# 20.0 MANDATED ENVIRONMENTAL REVIEW

- Cumulative Impacts ................................................................. 20-1
- Growth-Inducing Effects of the Proposed Action and Alternatives .... 20-14
- Relationship Between Local Short-term Use of the Environment and Maintenance and Enhancement of Long-term Productivity ................................................................. 20-17
- Irreversible & Irretrievable Commitment of Resources .................. 20-18
- Significant and Unavoidable Adverse Impacts ............................ 20-18
- CEQA Environmentally Superior Alternative ............................. 20-21
- TRPA Environmentally Preferable Alternative ............................ 20-22
## 21.0 MITIGATION AND MONITORING PROGRAM

21.1 Mitigation Program Approach. .................................................................................................................. 21-1
21.2 Mitigation Program Organization .............................................................................................................. 21-2
21.3 Mitigation Measure Format ....................................................................................................................... 21-4
21.4 Compliance with Existing Laws, Policies and Regulations/Compliance Measures ................................ 21-4
21.5 Recommended Mitigation Measures. ........................................................................................................ 21-13

## 22.0 LEAD AGENCY CONTACTS AND PREPARERS

22.1 Lead Agency Contacts................................................................................................................................. 22-1
22.2 Applicant Contact...................................................................................................................................... 22-1
22.3 List of Preparers......................................................................................................................................... 22-2

## APPENDICES

<table>
<thead>
<tr>
<th>Appendix</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>NOP</td>
</tr>
<tr>
<td>B</td>
<td>NOP Comments</td>
</tr>
<tr>
<td>C-1</td>
<td>General Soil and Revegetation Treatment Specifications</td>
</tr>
<tr>
<td>C-2</td>
<td>Soil Treatment Matrix</td>
</tr>
<tr>
<td>C-3</td>
<td>Homewood Creek SEZ Restoration Plan</td>
</tr>
<tr>
<td>D-1</td>
<td>TRPA Soils Hydrologic Approval Letter</td>
</tr>
<tr>
<td>D-2</td>
<td>Soils Hydrologic Approval Exhibits</td>
</tr>
<tr>
<td>D-3</td>
<td>Soils Hydrologic Groundwater Data and Calculations</td>
</tr>
<tr>
<td>E</td>
<td>Amendments to TRPA and Placer County Plan Areas 157, 158, and 159</td>
</tr>
<tr>
<td>F</td>
<td>Proposed TRPA Code of Ordinances and Goals and Policies Amendments</td>
</tr>
<tr>
<td>G</td>
<td>California Natural Diversity Database (CNDDB) Report</td>
</tr>
<tr>
<td>H-1</td>
<td>US Fish and Wildlife Service (USFWS) Species List</td>
</tr>
<tr>
<td>H-2</td>
<td>California Native Plant Society (CNPS) Database Search</td>
</tr>
<tr>
<td>I</td>
<td>HMR Wildlife Background Survey Reports</td>
</tr>
<tr>
<td>J</td>
<td>Traffic Raw Data Counts</td>
</tr>
<tr>
<td>K-1</td>
<td>HMR Parking Data</td>
</tr>
<tr>
<td>K-2</td>
<td>Trip Generation Calculations</td>
</tr>
<tr>
<td>K-3</td>
<td>HMR Parking Study and Alternatives Parking Tables</td>
</tr>
<tr>
<td>L-1</td>
<td>LOS and VMT Calculations</td>
</tr>
<tr>
<td>L-2</td>
<td>Caltrans Placer SR 89 Improvement Design Sheets</td>
</tr>
<tr>
<td>M</td>
<td>Construction Equipment Assumptions</td>
</tr>
<tr>
<td>N</td>
<td>Construction Schedules and Land Use Assumptions</td>
</tr>
<tr>
<td>O</td>
<td>URBEMIS Air Quality Model Outputs</td>
</tr>
<tr>
<td>P</td>
<td>Trip Generation Assumptions for Air Quality Analysis</td>
</tr>
<tr>
<td>Q</td>
<td>Hybrid Water Taxi Emissions Calculations</td>
</tr>
<tr>
<td>R</td>
<td>Diesel Generator Emissions Calculations</td>
</tr>
<tr>
<td>S</td>
<td>Air Quality Emissions by Year through Project Buildout (2021)</td>
</tr>
<tr>
<td>T</td>
<td>HMR Land Capability Challenge Exhibits</td>
</tr>
<tr>
<td>U</td>
<td>HMR LCV Map and Land Coverage Verification Letters</td>
</tr>
<tr>
<td>V</td>
<td>HMR Existing Land Coverage Summary Tables</td>
</tr>
<tr>
<td>W</td>
<td>HMR Cumulative Watershed Effects Analysis</td>
</tr>
<tr>
<td>X</td>
<td>HMR Preliminary Drainage Report</td>
</tr>
<tr>
<td>Y</td>
<td>Surface Water Quality Monitoring Data</td>
</tr>
<tr>
<td>Z</td>
<td>HMR Water Quality – Quantification of Design Benefits</td>
</tr>
<tr>
<td>AA</td>
<td>HMR Water Supply Assessment</td>
</tr>
<tr>
<td>BB-1</td>
<td>HMR/Caltrans CEP/EIP Water Quality Treatment Plan</td>
</tr>
<tr>
<td>BB-2</td>
<td>HMR/Caltrans CEP/EIP Project – Letter of Commitment</td>
</tr>
<tr>
<td>CC</td>
<td>HMR Landscaping Irrigation Estimates</td>
</tr>
<tr>
<td>DD</td>
<td>EMFAC Emission Outputs</td>
</tr>
</tbody>
</table>
TABLE OF CONTENTS

FIGURES

Figure 2-1 Project Location Map ................................................................. 2-1
Figure 3-1 Project Area Location and TRPA Plan Area Statements ........................................ 3-4
Figure 3-2 Project Area Location and Placer County West Shore Zoning ........................................ 3-5
Figure 3-3 Existing South and North Base Area Facility Locations ........................................ 3-6
Figure 3-4 Current Parcel Boundaries – HMR .................................................. 3-7
Figure 3-5 Proposed Project (Alternative 1) North Base Area Demolition Plan ......................... 3-20
Figure 3-6 Proposed Project (Alternative 1) South Base Area Demolition Plan .......................... 3-21
Figure 3-7 Proposed Project (Alternative 1) Overall Site Plan ........................................... 3-22
Figure 3-8 Proposed Project (Alternative 1) North Base Area Site Plan ..................................... 3-23
Figure 3-9 Proposed Project (Alternative 1) South Base Area Site Plan ................................. 3-24
Figure 3-10 Proposed Project (Alternative 1) Mid-Mountain Area Site Plan ......................... 3-26
Figure 3-11 Recommended SR 89 Transit Stop Design ............................................. 3-31
Figure 3-12 Potential Fill Areas within the Project Area .............................................. 3-38
Figure 3-13 Plan Area Statement Boundary Amendments – Proposed Project (Alternative 1) ......... 3-44
Figure 3-14 Alternative 3 No Code Amendment for Building Height Site Plan ......................... 3-49
Figure 3-15 Proposed Plan Area Statement Boundary Amendments – Alternative 3 ................. 3-52
Figure 3-16 Alternative 4 Close Ski Resort - Estate Lots Plan ............................................. 3-54
Figure 3-17 Alternative 5 Compact Project Area Site Plan .............................................. 3-57
Figure 3-18 Alternative 5 South Base Area Site Plan .................................................... 3-58
Figure 3-19 Proposed Plan Area Statement Boundary Amendments – Alternative 5 ................. 3-62
Figure 3-20 Alternative 6 Reduced Project Site Plan ................................................... 3-65
Figure 3-21 Alternative 6 South Base Area Site Plan .................................................... 3-66
Figure 3-22 Proposed Plan Area Statement Boundary Amendments – Alternative 6 ................. 3-70
Figure 6-1 Existing TRPA Plan Area Boundaries - PAS 157, 158 and 159 .............................. 6-5
Figure 6-2 Existing and Proposed TRPA Plan Area Boundaries – Alternatives 1 and 2 .......... 6-16
Figure 6-3 Existing and Proposed TRPA Plan Area Boundaries – Alternatives 3, 5 and 6 ......... 6-17
Figure 8-1 Delineation of Existing Habitats .................................................................. 8-3
Figure 8-2 Stream Environment Zones and 100-Year Floodplain Boundaries ....................... 8-69
Figure 10-1 Roadway Unit 11 ............................................................................. 10-6
Figure 10-2 Shoreline Unit 12 .............................................................................. 10-7
Figure 10-3 TRPA Recreation Units 20 (top image) and 21 (bottom image) ......................... 10-10
Figure 10-4 Scenic Viewpoint Locations from Lake Tahoe .................................................. 10-12
Figure 10-5 Lake Tahoe Scenic Viewpoint 1 (1,300 Feet from Shoreline) – Alternative 1 ........ 10-13
Figure 10-6 Lake Tahoe Scenic Viewpoint 2 (1,300 Feet from Shoreline) – Alternative 1 ......... 10-14
Figure 10-7 Lake Tahoe Scenic Viewpoint 3 (1,300 Feet from Shoreline) – Alternative 1 ......... 10-15
Figure 10-8 Lake Tahoe Scenic Viewpoint 4 (5,200 Feet from Shoreline) – Alternative 1 ......... 10-17
Figure 10-9 Scenic Viewpoint Locations from SR 89 .................................................... 10-18
Figure 10-10 SR 89 Scenic Viewpoint 1 of North Base Area – Alternative 1 ......................... 10-19
Figure 10-11 SR 89 Scenic Viewpoint 2 of North Base Area – Alternative 1 ......................... 10-20
Figure 10-12 SR 89 Scenic Viewpoint 3 of North Base Area – Alternative 1 ......................... 10-21
Figure 10-13 Scenic Viewpoint 4 of North Base Parking Structure – Alternative 1 ................. 10-22
Figure 10-14 Height Calculation Examples .............................................................. 10-34
Figure 10-15 SR 89 Scenic Viewpoint 1 of North Base Area – Alternative 5 ......................... 10-47
Figure 10-16 SR 89 Scenic Viewpoint 2 of North Base Area – Alternative 5 ......................... 10-48
Figure 10-17 SR 89 Scenic Viewpoint 3 of North Base Area – Alternative 5 ......................... 10-49
Figure 11-1 Project Area Access Roadways and Intersections ............................................. 11-2
Figure 11-2 Existing Summer Traffic Volumes, Lane Configurations, and Control Types .......... 11-5
Figure 11-3 Existing Winter Traffic Volumes, Lane Configurations, and Control Types ........... 11-9
Figure 11-4 Existing Ground Transit Facilities and Routes (Summer 2010) ............................ 11-13
Figure 11-5 North Lake Tahoe Express Routes (Winter 2009-2010 Map) ......................... 11-14
Figure 11-6 Existing Bicycle and Pedestrian Facilities ................................................. 11-15
Figure 11-7 Alternatives 1 and 3 Summer Project Trips (including Pass-By) ......................... 11-49
Figure 11-8 Alternative 4 Summer Project Trips (including Pass-By) ................................. 11-50
Figure 11-9  Alternative 5 Summer Project Trips (including Pass-By)........................................ 11-51
Figure 11-10  Alternative 6 Summer Project Trips (including Pass-By) ........................................ 11-52
Figure 11-11  Alternatives 1 and 3 Winter Project Trips (including Pass-By) ...................................... 11-53
Figure 11-12  Alternative 4 Winter Project Trips (including Pass-By) ............................................... 11-54
Figure 11-13  Alternative 5 Winter Project Trips (including Pass-By) ............................................... 11-55
Figure 11-14  Alternative 6 Winter Project Trips (including Pass-By) ............................................... 11-56
Figure 11-15  Existing Summer Plus Alternatives 1 and 3 Traffic Volumes ...................................... 11-64
Figure 11-16  Existing Summer Plus Alternative 4 Traffic Volumes .................................................. 11-65
Figure 11-17  Existing Summer Plus Alternative 5 Traffic Volumes .................................................. 11-66
Figure 11-18  Existing Summer Plus Alternative 6 Traffic Volumes .................................................. 11-67
Figure 11-19  Existing Winter Plus Alternatives 1 and 3 Traffic Volumes ........................................ 11-73
Figure 11-20  Existing Winter Plus Alternative 4 Traffic Volumes .................................................... 11-74
Figure 11-21  Existing Winter Plus Alternative 5 Traffic Volumes ................................................... 11-75
Figure 11-22  Existing Winter Plus Alternative 6 Traffic Volumes ................................................... 11-76
Figure 11-23  2030 Cumulative Summer Traffic Volumes, Lane Configurations and Control Types ....... 11-85
Figure 11-24  2030 Cumulative Winter Traffic Volumes, Lane Configurations and Control Types ..... 11-86
Figure 11-25  Cumulative Summer Plus Alternatives 1 and 3 Traffic Volumes ................................... 11-90
Figure 11-26  Cumulative Summer Plus Alternative 4 Traffic Volumes ............................................. 11-91
Figure 11-27  Cumulative Summer Plus Alternative 5 Traffic Volumes ............................................. 11-92
Figure 11-28  Cumulative Summer Plus Alternative 6 Traffic Volumes ............................................. 11-93
Figure 11-29  Cumulative Winter Plus Alternatives 1 and 3 Traffic Volumes ...................................... 11-99
Figure 11-30  Cumulative Winter Plus Alternative 4 Traffic Volumes .............................................. 11-100
Figure 11-31  Cumulative Winter Plus Alternative 5 Traffic Volumes .............................................. 11-101
Figure 11-32  Cumulative Winter Plus Alternative 6 Traffic Volumes .............................................. 11-102
Figure 13-1  R18507 Alternative Blasting Level Criteria ........................................................................ 13-9
Figure 14-1  Project Area Geology and Fault Map ............................................................................. 14-7
Figure 14-2  Project Area Soils Map for Geotechnical Consideration ............................................... 14-11
Figure 14-3  Land Capability Challenge Area Exhibit ......................................................................... 14-22
Figure 14-4  Sediment Source Control Projects for Land Coverage Reductions, 2006-2009 ............... 14-23
Figure 14-5  Proposed Sediment Source Control and Land Coverage Removal Projects ................. 14-26
Figure 14-6  Alternative 1 - Existing and Proposed Land Coverage at the North Base Area ............ 14-56
Figure 14-7  Alternative 1 - Existing and Proposed Land Coverage at the South Base Area .............. 14-57
Figure 14-8  Alternative 1 – Existing and Proposed Land Coverage at the Mid-Mountain Area ......... 14-58
Figure 15-1  Project Area Watersheds .............................................................................................. 15-3
Figure 15-2  Channel Reach Delineations and Conditions ............................................................... 15-6
Figure 15-3  Snow Storage Areas Proposed for the North Base Area .............................................. 15-57
Figure 15-4  Snow Storage Areas Proposed for the South Base Area .............................................. 15-58
Figure 15-5  Accumulated Sediment Load From The North and South Base Areas Under Wet WY (WY 2006) ........................................................................................................... 15-65
Figure 15-6  Sediment Yields (T/yr) for Project Area vs. Project Area TOCs .................................... 15-67
Figure 15-7  Homewood (Ellis) Creek 100-Year Flood Plain ........................................................... 15-75
Figure 15-8  Homewood (Ellis) Creek Cross Section ......................................................................... 15-76
Figure 15-9  Homewood (Ellis) Creek 100-Year Flood Plain (Below Project) ................................. 15-77
Figure 15-10  Treatment Train Schematic Proposed for the North and South Base Areas ............ 15-79
Figure 15-11  Stormwater Treatment Systems – North Base Area (Alternative 1) ......................... 15-81
Figure 15-12  Stormwater Treatment Systems – South Base Area (Alternative 1) ......................... 15-82
Figure 15-13  Stormwater Treatment Systems – Tahoe Ski Bowl Way .......................................... 15-91
Figure 15-14  Stormwater Treatment Systems – Mid-Mountain Area ............................................. 15-93
Figure 15-15  Off-Site EIP Project Design Schematic ..................................................................... 15-94
Figure 15-16  Schematic for Operational Groundwater Interception Mitigation .............................. 15-109
Figure 15-17  Sediment Yields (T/yr) for Total Watershed vs. Total Watershed TOCs .................. 15-123
### TABLES

<table>
<thead>
<tr>
<th>Table</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Table 2-1</td>
<td>Summary of Impacts and Mitigation Measures for the Proposed Project (Alternative 1), No Project (Alternative 2) and Alternatives 3, 4, 5 and 6</td>
<td>2-5</td>
</tr>
<tr>
<td>Table 2-2</td>
<td>Summary of Environmental Benefits under the CEP Alternatives, the Proposed Project (Alternative 1) and Alternatives 3, 5, and 6</td>
<td>2-37</td>
</tr>
<tr>
<td>Table 3-1</td>
<td>Existing TRPA and Placer County Plan Area Statements in the Project Area</td>
<td>3-2</td>
</tr>
<tr>
<td>Table 3-2</td>
<td>Assessor Parcel Numbers and Existing Zoning</td>
<td>3-3</td>
</tr>
<tr>
<td>Table 3-3</td>
<td>Project Alternatives Proposed in Scoping Comments</td>
<td>3-12</td>
</tr>
<tr>
<td>Table 3-4</td>
<td>Project-level and Programmatic-level Components – Proposed Project (Alternative 1)</td>
<td>3-17</td>
</tr>
<tr>
<td>Table 3-5</td>
<td>Existing and Proposed Ski Lift Capacity</td>
<td>3-32</td>
</tr>
<tr>
<td>Table 3-6</td>
<td>Potential Fill Areas within the Project Area</td>
<td>3-37</td>
</tr>
<tr>
<td>Table 3-7</td>
<td>Proposed Project (Alternative 1) Building Heights and Setbacks</td>
<td>3-42</td>
</tr>
<tr>
<td>Table 3-8</td>
<td>Alternative 3 Building Heights and Setbacks</td>
<td>3-51</td>
</tr>
<tr>
<td>Table 3-9</td>
<td>Alternative 5 Building Heights and Setbacks</td>
<td>3-56</td>
</tr>
<tr>
<td>Table 3-10</td>
<td>Alternative 6 Building Heights and Setbacks</td>
<td>3-64</td>
</tr>
<tr>
<td>Table 3-11</td>
<td>Homewood Mountain Resort Ski Area Master Plan Alternatives Unit Count</td>
<td>3-81</td>
</tr>
<tr>
<td>Table 3-12</td>
<td>Homewood Mountain Resort Ski Area Master Plan Alternatives Comparison</td>
<td>3-82</td>
</tr>
<tr>
<td>Table 4-2-1</td>
<td>TRPA Regional Plan Goals and Policies Consistency Analysis</td>
<td>4-4</td>
</tr>
<tr>
<td>Table 4-2-2</td>
<td>TRPA Plan Area Statement Consistency Analysis</td>
<td>4-42</td>
</tr>
<tr>
<td>Table 4.3-1</td>
<td>HMR Consistency Analysis with the 1998 West Shore Area General Plan Goals, Policies, and Development Standards</td>
<td>4-51</td>
</tr>
<tr>
<td>Table 4.3-2</td>
<td>HMR Consistency Analysis with the 1994 Placer County General Plan Goals, Policies, and Development Standards</td>
<td>4-67</td>
</tr>
<tr>
<td>Table 6-1</td>
<td>Evaluation Criteria with Points of Significance – Land Use</td>
<td>6-13</td>
</tr>
<tr>
<td>Table 6-2</td>
<td>HMR Ski Area Master Plan – Environmental Improvements and Benefits</td>
<td>6-21</td>
</tr>
<tr>
<td>Table 6-3</td>
<td>Alternatives 1, 3, and 6 Proposed Land Uses by TRPA Plan Area Statement</td>
<td>6-25</td>
</tr>
<tr>
<td>Table 6-4</td>
<td>Proposed Tourist and Residential Units by Alternative</td>
<td>6-37</td>
</tr>
<tr>
<td>Table 7-1</td>
<td>Population by County, Lake Tahoe Region, 1990-2007</td>
<td>7-2</td>
</tr>
<tr>
<td>Table 7-2</td>
<td>Placer County and Homewood (96141) Race and Ethnicity, 2000</td>
<td>7-3</td>
</tr>
<tr>
<td>Table 7-3</td>
<td>Lake Tahoe Region Housing Units, 1990-2000</td>
<td>7-4</td>
</tr>
<tr>
<td>Table 7-4</td>
<td>Lake Tahoe Distribution of Employment, 2003</td>
<td>7-4</td>
</tr>
<tr>
<td>Table 7-5</td>
<td>Lake Tahoe Distribution of Earnings, 2003</td>
<td>7-5</td>
</tr>
<tr>
<td>Table 7-6</td>
<td>Evaluation Criteria with Points of Significance – Population Employment and Housing.</td>
<td>7-7</td>
</tr>
<tr>
<td>Table 7-7</td>
<td>Estimated Employment Generated and Workforce Housing Required by Alternative</td>
<td>7-9</td>
</tr>
<tr>
<td>Table 7-8</td>
<td>HMR Consistency Analysis with the 1994 Placer County General Plan and 2009 Housing Element, and 1998 West Shore Area General Plan Goals, Policies, and Development Standards Related to Population, Employment, and Housing</td>
<td>7-11</td>
</tr>
<tr>
<td>Table 8-1</td>
<td>Special-Status Plants that May Occur in the Project Area or Vicinity</td>
<td>8-6</td>
</tr>
<tr>
<td>Table 8-2</td>
<td>Special-Status Wildlife Species that May Occur In the Project Area or Vicinity</td>
<td>8-9</td>
</tr>
<tr>
<td>Table 8-3</td>
<td>TRPA Sensitive Plants</td>
<td>8-34</td>
</tr>
<tr>
<td>Table 8-4</td>
<td>TRPA Environmental Thresholds for Special Interest Species</td>
<td>8-34</td>
</tr>
<tr>
<td>Table 8-5</td>
<td>Evaluation Criteria with Points of Significance – Biological Resources</td>
<td>8-51</td>
</tr>
<tr>
<td>Table 8-6</td>
<td>Estimated Tree Removal By Alternative (diameter at breast height)</td>
<td>8-55</td>
</tr>
<tr>
<td>Table 9-1</td>
<td>Evaluation Criteria with Points of Significance – Cultural and Historical Resources</td>
<td>9-8</td>
</tr>
<tr>
<td>Table 10-1</td>
<td>Scenic Roadway Threshold Travel Route Ratings, Unit 11 (Homewood)</td>
<td>10-6</td>
</tr>
<tr>
<td>Table 10-2</td>
<td>Scenic Shoreline Threshold Travel Route Ratings, Unit 12 (McKinney Bay)</td>
<td>10-8</td>
</tr>
<tr>
<td>Table 10-3</td>
<td>2001 Scenic Recreational Area Ratings of Ski Homewood (Unit 20) and Tahoe Ski Bowl (Unit 21)</td>
<td>10-11</td>
</tr>
<tr>
<td>Table 10-4</td>
<td>Evaluation Criteria with Point of Significance - Scenic Resources</td>
<td>10-27</td>
</tr>
<tr>
<td>Table 10-5</td>
<td>Proposed Project (Alternative 1) Building Heights in Relation to Amended TRPA Height Standards (§22.4.G)</td>
<td>10-32</td>
</tr>
<tr>
<td>Table 10-6</td>
<td>Alternative 3 (No Code Amendment for Height) Building Heights in Relation to Existing TRPA Height Standards</td>
<td>10-39</td>
</tr>
<tr>
<td>Table 10-7</td>
<td>Alternative 5 Building Heights in Relation to Amended TRPA Height Standards (§22.4.G)</td>
<td>10-45</td>
</tr>
</tbody>
</table>
Table 10-8 Alternative 6 Building Heights in Relation to Amended TRPA Height Standards (§22.4.G) .............................................................................................................. 10-54
Table 10-9 Evaluation of Consistency with Scenic Improvement Recommendations .................................................................................................................. 10-60
Table 10-10 Proposed Project (Alternative 1) and Alternative 3 Scenic Roadway and Shoreline Unit Travel Route Ratings Changes ................................................. 10-62
Table 10-11 Alternative 6 Scenic Roadway and Shoreline Unit Travel Route Ratings Changes ................................................................. 10-63
Table 10-12 Alternative 4 - Scenic Roadway and Shoreline Unit Travel Route Ratings Changes ........................................................................................................ 10-66
Table 10-13 Evaluation of Consistency with Scenic Improvement Recommendations ........................................................................................................ 10-68
Table 10-14 Alternative 5 Scenic Roadway and Shoreline Unit Travel Route Ratings Changes ................................................................................................. 10-69
Table 11-1 Existing Intersection Turning Movement Counts – Friday PM Peak Hour (Summer) .................................................. 11-4
Table 11-2 Existing Intersection Turning Movement Counts – Friday PM Peak Hour (Winter) .................................................. 11-8
Table 11-4 Historic Average Daily Traffic Volumes – SR 28 .......................................................................................................................... 11-10
Table 11-5 Intersection LOS Criteria .................................................................................................................................................. 11-11
Table 11-6 LOS Results – Existing Conditions .................................................................................................................................................. 11-12
Table 11-7 Applicable Transportation, Parking, and Circulation Standards ............................................................................................. 11-16
Table 11-8 Evaluation Criteria with Point of Significance – Transportation, Parking and Circulation .................................................................................. 11-24
Table 11-9 Proposed Project (Alternative 1) and Alternative 3 – Summer Trip Generation ................................................................................................. 11-31
Table 11-10 Alternative 4 – Summer Trip Generation .......................................................................................................................... 11-32
Table 11-11 Alternative 5 – Summer Trip Generation .......................................................................................................................... 11-33
Table 11-12 Alternative 6 – Summer Trip Generation .......................................................................................................................... 11-34
Table 11-13 Project (Alternative 1) and Alternative 3 – Winter Trip Generation ................................................................................................. 11-40
Table 11-14 Alternative 4 – Winter Trip Generation .......................................................................................................................... 11-42
Table 11-15 Alternative 5 – Winter Trip Generation .......................................................................................................................... 11-43
Table 11-16 Alternative 6 – Winter Trip Generation .......................................................................................................................... 11-44
Table 11-17 Project Alternatives Trip Generation Summary .......................................................................................................................... 11-46
Table 11-18 VMT Analysis Comparison – Summer/Winter .......................................................................................................................... 11-58
Table 11-19 HMR MP Parking Supply and Demand Summary .......................................................................................................................... 11-60
Table 11-20 Summer LOS Results – Existing and Existing Plus Project Summary of Project Alternatives .................................................................................. 11-63
Table 11-21 Summer Queuing Analysis – Existing and Existing Plus Project Summary of Project Alternatives .................................................................................. 11-70
Table 11-22 Winter LOS Results – Existing and Existing Plus Project Summary of Project Alternatives .................................................................................. 11-72
Table 11-23 Winter Queuing Analysis – Existing and Existing Plus Project Summary of Project Alternatives .................................................................................. 11-78
Table 11-24 Grading Truck Trips – Alternatives 1, 3, 5 and 6 .......................................................................................................................... 11-81
Table 11-25 LOS Results – 2030 Cumulative Conditions .......................................................................................................................... 11-87
Table 11-26 Summer LOS Results – Cumulative and Cumulative Plus Project Summary of Project Alternatives .................................................................................. 11-88
Table 11-27 Summer Queuing Analysis - Cumulative and Cumulative Plus Project Summary of Project Alternatives .................................................................................. 11-96
Table 11-28 Winter LOS Results – Cumulative and Cumulative Plus Project Summary of Project Alternatives .................................................................................. 11-98
Table 11-29 Winter Queuing Analysis – Cumulative and Cumulative Plus Project Summary of Project Alternatives .................................................................................. 11-105
Table 12-1 Ambient Air Quality Standards Applicable in California .......................................................................................................................... 12-3
Table 12-2 Ambient Air Quality Monitoring Data Measured at the Truckee, Echo Summit, South Lake Tahoe-Airport, and South Lake Tahoe-Sandy Way Monitoring Stations .......................................................................................................................... 12-7
Table 12-3 Federal and State attainment Status for Placer County .......................................................................................................................... 12-10
Table 12-4 Estimated Emissions for the California Side of the LTab in 2008 .......................................................................................................................... 12-11
Table 12-5 Existing (2008) Emissions at HMR (pounds per day) .......................................................................................................................... 12-14
Table 12-6 TRPA New Stationary Source Review Significance Thresholds .......................................................................................................................... 12-19
Table 12-7 Thresholds of Significance .................................................................................................................................................. 12-20
Table 12-8  Land Use Assumptions................................................................. 12-23
Table 12-9  Construction Emissions from Proposed Project (Alternative 1) (pounds per day)........ 12-24
Table 12-10 Construction Emissions from Alternative 3 (pounds per day)................................ 12-25
Table 12-11 Construction Emissions from Alternative 4 (pounds per day)................................ 12-27
Table 12-12 Construction Emissions from Alternative 5 (pounds per day)................................ 12-27
Table 12-13 Construction Emissions from Alternative 6 (pounds per day)................................ 12-29
Table 12-14 Daily VMT Generated at Buildout........................................................................ 12-35
Table 12-15 Horsepower and Emission Factors (grams/horsepower-hour) for Diesel Generators..... 12-37
Table 12-16 Operational Emissions (2021) from Proposed Project (Alternative 1) and Alternative 3 (pounds per day) ........................................................................................................ 12-38
Table 12-17 Operational Emissions (2021) from Alternative 4 (pounds per day)....................... 12-39
Table 12-18 Operational Emissions (2021) from Alternative 5 (pounds per day)....................... 12-40
Table 12-19 Operational Emissions (2021) from Alternative 6 (pounds per day)....................... 12-41
Table 12-20 VMT Analysis of the Proposed Project (Alternative 1) and Alternatives.................. 12-42
Table 12-21 Stationary Source Emissions (pounds per day) ...................................................... 12-43
Table 12-22 Carbon Monoxide Modeling Concentrations Results (parts per million) .................. 12-47
Table 13-1 Typical Noise Levels......................................................................................... 13-2
Table 13-2 Vibration Source Levels for Construction Equipment .......................................... 13-4
Table 13-3 Human Response to Transient Vibration .............................................................. 13-4
Table 13-4 Human Response to Continuous Vibration .......................................................... 13-5
Table 13-5 Human Response to Airblast and Ground Vibration from Blasting ......................... 13-6
Table 13-6 Continuous Ambient Noise Monitoring Results .................................................... 13-7
Table 13-7 Continuous Ambient Noise Monitoring Results With and Without Snowmaking ...... 13-8
Table 13-8 Allowable L<sub>eq</sub> Noise Levels Within Specified Zone Districts Applicable to New Projects Affected by or Including Non-Transportation Noise Sources (Table 9-1 of the Placer County General Plan) .............................................................................................................. 13-12
Table 13-9 Maximum Allowable Noise Exposure for Transportation Noise Sources (Table 9-3 of the Placer County General Plan) ...................................................................................................... 13-13
Table 13-10 Placer County Noise Ordinance Sound Level Standards ...................................... 13-13
Table 13-11 TRPA Community Noise Level Standards .......................................................... 13-15
Table 13-12 Evaluation Criteria with Point of Significance – Noise .......................................... 13-16
Table 13-13 Construction Equipment Noise .......................................................................... 13-17
Table 13-14 Guideline Vibration Damage Potential Threshold Criteria .................................... 13-19
Table 13-15 Guideline Vibration Annoyance Potential Criteria .............................................. 13-19
Table 13-16 Snowmaking Equipment Noise Levels................................................................. 13-20
Table 13-17 Calculated Construction Noise Levels ................................................................. 13-21
Table 13-18 Calculated Noise Levels from Pile Driver............................................................. 13-21
Table 13-19 Calculated Vibration from Blasting...................................................................... 13-23
Table 13-20 Calculated Airblast from Blasting ....................................................................... 13-24
Table 13-21 Noise Levels for 2030 plus Alternative 1 and 3.................................................... 13-29
Table 13-22 Noise Levels for 2030 + Alternative 4................................................................. 13-31
Table 13-23 Noise Levels for 2030 + Alternative 5................................................................. 13-32
Table 13-24 Noise Levels for 2030 + Alternative 6................................................................. 13-34
Table 14-1 Modified Mercalli Intensity Scale ........................................................................ 14-4
Table 14-2 NRCS Soils in the Project Area ............................................................................. 14-12
Table 14-3 Bailey System Basis of Capability for Lake Tahoe Basin Lands ......................... 14-19
Table 14-4 Project Area Land Capability and Existing Land Coverage Determinations........... 14-21
Table 14-5 Evaluation Criteria with Point of Significance – Soils, Geology and Seismicity ...... 14-36
Table 14-6 Proposed Land Coverage Comparison by Alternative (Square Feet) ..................... 14-49
Table 14-7 Excess Land Coverage Mitigation Comparison by Alternative ........................... 14-62
Table 14-8 Estimates of Cut and Fill Volumes (Cubic Yards) for the Proposed Project (Alternative 1) and Alternatives 3, 5 and 6 ................................................................. 14-72
Table 15-1 Modeled and Historic Flood Data for USGS Monitoring Sites in Homewood, CA...... 15-4
Table 15-2 Annualized Total Sediment Estimates –Baseline/Existing Conditions vs. Project Area and Total Watershed Thresholds of Concern ...................................................... 15-12
Table 15-3  Estimated Annual Stormwater Volumes (Cubic Feet) Leaving the Project Area
   – Existing Conditions ................................................................. 15-22
Table 15-4  TRPA Surface Water Discharge Limits .................................................. 15-29
Table 15-5  Lahontan Water Quality Objectives – Board No. 6-95-86 ...................... 15-36
Table 15-6  Evaluation Criteria with Significance Thresholds – Hydrology, Water Rights,
   Surface Water Quality and Groundwater ...................................... 15-46
Table 15-7  Annual Stormwater Sediment Loads for Existing, 20-year BMP and Project SWMP
Table 15-8  Decrease in Stormwater Sediment Loads for Project over 20-year BMPs SWMP
Table 15-9  Stormwater Treatment System Calculations – North, South, Mid-Mountain Areas,
   Tahoe Ski Bowl Way and Off-site Caltrans/Placer/HMR EIP Project (Alternative 1).... 15-83
Table 15-10 Projected Groundwater Flows for Operational Mitigation of Intercepted Groundwater15-106
Table 16-1  Tahoe Area K-12 Current School Enrollment and Capacity ....................... 16-5
Table 16-2  Evaluation Criteria with Point of Significance - Public Services & Utilities .... 16-13
Table 16-3  Annual Water Demand by Alternative .............................................. 16-16
Table 16-4  Solid Waste Generated During Construction by Alternative .................. 16-21
Table 16-5  Peak Daily and Annual Total Solid waste Generation by Alternative .......... 16-23
Table 16-6  Potential New School Enrollment and Residual Capacity ....................... 16-26
Table 17-1  Evaluation Criteria with Point of Significance – Hazardous Materials and Public Safety17-12
Table 18-1  Evaluation Criteria with Point of Significance – Recreation .................. 18-12
Table 18-2  Existing and Proposed Ski Lift Capacity – Alternatives 1, 3, 5, and 6 .......... 18-20
Table 19-1  Lifetimes and Global Warming Potentials of Several Significant GHGs .......... 19-4
Table 19-2  Annual Global GHG Emissions from the IPCC 2004 Inventory ............... 19-6
Table 19-3  Annual U.S. Greenhouse Gas Emissions from the EPA 2007 Inventory ....... 19-6
Table 19-4  Annual U.S. Greenhouse Gas Emissions from the 2007 EIA Inventory ....... 19-7
Table 19-5  Annual Statewide Greenhouse Gas Emissions from the 2004 CEC Inventory .... 19-8
Table 19-6  Annual Statewide Greenhouse Gas Emissions from the 2006 ARB Inventory .... 19-8
Table 19-7  Estimated GHG Emissions from Construction Activities for the Proposed Project
   (Alternative 1) and Alternative 3 (metric tons) ..................................... 19-22
Table 19-8  Estimated GHG Emissions from Construction Activities for Alternative 4 (metric tons) 19-22
Table 19-9  Estimated GHG Emissions from Construction Activities for Alternative 5 (metric tons) 19-23
Table 19-10 Estimated GHG Emissions from Construction Activities for Alternative 6 (metric tons) 19-24
Table 19-11 Fleet Profile by Vehicle Class ...................................................... 19-25
Table 19-12  Annual (2021) Mobile Source Emissions from Transportation (metric tons) .... 19-27
Table 19-13  Annual (2021) Area Source GHG Emissions (metric tons) ................. 19-29
Table 19-14 Assumptions for Annual Project-Related Emissions of HFCs from Refrigeration (metric tons) ................................................................. 19-30
Table 19-15 Assumptions for Annual Project-Related Emissions of HFCs from Air Conditioning (metric tons) ................................................................. 19-31
Table 19-16  Annual (2021) Project-Related Emissions of HFCs from Refrigeration and
   Air Conditioning (metric tons) ........................................................... 19-32
Table 19-17  Total Emissions Associated with Annual (2021) Electricity Consumption (metric tons) 19-35
Table 19-18  GHG Emission Factors for Residential and Commercial Natural Gas Combustion
   (metric tons) ....................................................................................... 19-35
Table 19-19 Total Emissions Associated with Annual (2021) Natural Gas Consumption
   (metric tons) ....................................................................................... 19-36
Table 19-20  Annual Water Supply Intensity and Resulting GHG Emissions (metric tons) .... 19-38
Table 19-21  Population Estimates, Sanitary Sewer Discharge, and Resulting GHG Emissions (metric tons) ............................................................................. 19-40
Table 19-22  Total GHG Emissions Associated with Construction of HMR (metric tons) .... 19-40
Table 19-23  Annual Operational GHG Emissions Associated with HMR (metric tons) .... 19-41
Table 19-24  Annual HMR GHG Emissions in California, U.S., and Global Context .......... 19-43
Table 19-25  Greenhouse Gas Reduction Strategies and Associated Reduction Potentials .... 19-45
Table 20-1  List of Related Projects in Placer and Washoe Counties - Lake Tahoe Basin Area .... 20-2
Table 20-2  Significant and Unavoidable Impacts by Alternative

20-19