

3.8 MINERAL RESOURCES

As a result of the Initial Study,¹ the City of Pasadena determined that the Arroyo Seco Master Plan project (proposed project) had the potential to result in significant impacts to mineral resources; therefore, mineral resources were carried forward for detailed analysis in this Master Environmental Impact Report. This analysis was undertaken to identify opportunities to avoid, reduce, or otherwise mitigate significant impacts to mineral resources. This section is based on review of the *City of Pasadena Comprehensive General Plan*;² the *Regional Comprehensive Plan and Guide*,³ and *Mines and Mineral Producers Active in California*.⁴

Federal

3.8.1 Regulatory Framework

National Environmental Policy Act

Elements of the proposed project could potentially be funded by federal grant monies. The National Environmental Policy Act (NEPA) and its supporting federal regulations establish certain requirements that must be adhered to for any project "...financed, assisted, conducted or approved by a federal agency...." In making a decision on the issuance of federal grant monies for elements of the

¹ City of Pasadena, 2000. *Initial Study Arroyo Seco Mater Plan Project*. Prepared by: Sapphos Environmental Inc., 133 Martin Alley, Pasadena, CA 91105. Contact: Department of Planning and Permitting, 175 North Garfield, Pasadena, CA 91109.

² City of Pasadena, Planning Division, 1994. *City of Pasadena Comprehensive General Plan*. Contact: Community Planning Section, 175 North Garfield Avenue, Pasadena, CA 91109-7215.

³ Southern California Association of Governments (SCAG), 1995. *Regional Comprehensive Plan and Guide*. Contact: 818 W. Seventh Street, 12th Floor, Los Angeles, CA 90017.

⁴ California Department of Conservation Division of Mines and Geology (CDMG). 1990. *Mines and Mineral Producers Active in California (1988-89)*. Special Publication 103. Contact: CDMG, Los Angeles Office, 655 S. Hope Street, #700, Los Angeles, CA 90017.

proposed project, the federally designated lead agency pursuant to NEPA is required to "...determine whether the proposed action may significantly affect the quality of the human environment."

State

Surface Mining and Reclamation Act of 1975

In accordance with the Surface Mining and Reclamation Act⁵ of 1975 (SMARA), all mining activities in operation as of January 1976 and those placed in operation after that date shall be required to submit a surface mining and reclamation plan that provides for appropriate measures to rehabilitate the site prior to its abandonment. The California Department of Conservation, Division of Mines and Geology, provides a special publication, *Mines and Mineral Producers Active in California*,⁶ which contains the names, addresses, commodities, and locations of 1,012 mines believed to have produced mineral commodities in California during 1988-89. The Hahamongna Watershed Park contains such mines that have produced mineral commodities in California during 1988-89.

REGIONAL

Regional Comprehensive Plan and Guide

The Southern California Association of Governments (SCAG) provides goals for open-space conservation that include the protection of mining operations. To support and ensure a high quality of life and equity for southern California residents, goals have been established for each of the four major types of open-space areas defined in the *Regional Comprehensive Plan and Guide*,⁷ including

⁵ Public Resources Code (PCR), Division 2, Chapter 9 et. seq., 1975. "Surface Mining and Reclamation Act of 1975."

⁶ CDMG, 1990.

⁷ SCAG, 1995.

Resource Production areas, which consist of areas within open space that are designed for the production of crops, fisheries, timber, and mineral resources. The goal of the Resource Production areas is to maintain adequate viable resource production lands, particularly lands devoted to commercial, agricultural, and mining operations.

CITY OF PASADENA

The City of Pasadena Comprehensive General Plan

According to *The City of Pasadena Comprehensive General Plan*,⁸ local governments are responsible for designated lands that contain regionally significant mineral resources identified in the local *General Plan*⁹ to assure resource conservation in areas of intensive competing land uses. The law has resulted in preparation of mineral land classification maps delineating Mineral Resource Zones (MRZs). The Hahamongna Watershed Park contains areas delineated within an MRZ.

3.8.2 Existing Conditions

Devil's Gate Reservoir is located within the *Hahamongna Watershed Park Master Plan*¹⁰ area and is designated MRZ-2. MRZ-2 areas contain adequate information to indicate that significant mineral deposits are present or are judged to have a high likelihood for their presence.¹¹ Historically, there has been mining for Portland Cement concrete aggregate behind Devil's Gate Dam.¹²

⁸ City of Pasadena, 1994.

⁹ Ibid.

¹⁰ City of Pasadena, 2002. *Hahamongna Watershed Park Master Plan*. Prepared by: City of Pasadena Parks and Natural Resources Division, Pasadena, CA. Contact: 100 N. Garfield Avenue, Pasadena, CA 91109.

¹¹ City of Pasadena, 1994.

¹² CDMG, 1990.

Arroyo stone has also been in demand by landscaping firms. Any grading is likely to turn up large quantities of arroyo stone that could be used in accordance with the Design Guidelines for repairing entrances, retaining walls, rubble walls, and holding signs.

3.8.3 Significance Thresholds

The City of Pasadena normally considers a project to have a significant impact to mineral resources if the project would have either of the following outcomes:

?? result in the loss of availability of a known mineral resource identified in *Mines and Mineral Producers Active in California*;¹³

?? result in loss of availability of a locally important mineral resource recovery site delineated as a "Resource Production Area" in the *Regional Comprehensive Plan and Guide*,¹⁴ or as a "Mineral Resource Zone" in the *City of Pasadena Comprehensive General Plan*.¹⁵

3.8.4 Impact Analysis

3.8.4.1 Hahamongna Watershed Park Master Plan

3.8.4.1.1 Significant Impacts

The proposed project includes water conservation measures, including the construction of three new spreading basins, which would result in grading behind Devil's Gate Dam and within the reservoir. The Final Environmental Impact Report (EIR)¹⁶ for the Land Use and Mobility Elements of the *City of*

¹³ Ibid.

¹⁴ SCAG, 1995.

¹⁵ City of Pasadena, 1994.

¹⁶ Ibid.

*Pasadena General Plan*¹⁷ states that the Devil's Gate Reservoir may contain mineral resources such as sand, gravel, and stone. The California Department of Conservation, Division of Mines and Geology lists the Los Angeles County Devil's Gate Reservoir Pit D & S Earth Movers as Mines and Mineral Producers Active in California between 1988 and 1989 for sand and gravel. Grading would likely expose mineral and mining resources as well as large amounts of highly demanded arroyo stone. The grading materials that would potentially include sand and gravel would remain on site to be used for other components of the proposed project; however, the potentially derived arroyo stone will be required for other components of the proposed project. Therefore, stone would be collected. This would require the consideration of mitigation measures in the event of discovery of arroyo stone during construction.

3.8.4.1.2 Issues Found Not to Be Significant

The only MRZs, Active Mines, and Mineral Producers within the Hahamongna Watershed Park are within the Devil's Gate Reservoir area. All other components of the proposed project not located within the Reservoir area are not issues that were found to have the potential to impact mineral and mining resources.

3.8.4.2 Central Arroyo Seco Master Plan

The area encompassing the *Central Arroyo Seco Master Plan*¹⁸ does not contain MRZs or Active Mines and Mineral Producers; therefore, there is no potential for the implementation of the proposed project to impact mineral and mining resources within the *Central Arroyo Seco Master Plan*¹⁹ area.

3.8.4.3.1 Lower Arroyo Seco Master Plan

¹⁷ Ibid.

¹⁸ City of Pasadena, 9 July 2001. *Central Arroyo Master Plan*. Contact: 100 N. Garfield Avenue, Pasadena, CA 91109.

¹⁹ Ibid.

The area encompassing the *Lower Arroyo Seco Master Plan*²⁰ does not contain MRZs or Active Mines and Mineral Producers; therefore, there is no potential for the implementation of the proposed project to impact mineral and mining resources within the *Lower Arroyo Seco Master Plan*²¹ area.

3.8.4.4 Rose Bowl Use Plan

The Rose Bowl Operating Company (RBOC) has recommended that the City Council approve a *Rose Bowl Use Plan*²² that will allow 25 major events, or displacement events, to be permitted annually. An increase in events scheduled at the Rose Bowl would not result in significant impacts to mineral resources. The Rose Bowl is located in the Central Arroyo Seco Master Plan area that does not contain MRZs, Active Mines, or Mineral Producers.

3.8.4.5 Design Guidelines

Appendix A contains the proposed project design guidelines. The design guidelines do not include elements that would result in significant impacts to mineral resources.

3.8.5 Mitigation Measures

Measure Minerals - 1

During construction of the following components, the City of Pasadena shall ensure that the contractor assigned to the construction of the Water

²⁰ City of Pasadena, June 1988. *Master Plan for the Lower Arroyo Seco*. Prepared by: California State Polytechnic University, Department of Landscape Architecture, Graduate Program, Pomona, CA. Contact: 100 N. Garfield Avenue, Pasadena, CA 91109.

²¹ Ibid.

²² City of Pasadena, 14 August 2000. *Agenda Report to the City Council: Rose Bowl Use Plan from Rose Bowl Operating Committee*. Contact: 100 N. Garfield Avenue, Pasadena, CA 91109.

Conservation Components of the proposed project provide a plan for dealing with issues of arroyo stone that may be exposed during grading. Stockpiling should take place to collect the stone to be used for various other components of the proposed project, specifically to be used in accordance with the Design Guidelines for entrances, repairing retaining walls, rubble walls, and holding signs. There is currently a stockpiling area in Hahamongna Watershed Park that stocks and stores arroyo stone and boulders to be used for future projects. This storage area is located on the west side of the basin next to Tom Sawyer Camp and the Disc Golf Course.

3.8.6 Level of Significance after Mitigation

Incorporation of Mitigation Measure Minerals-1 would reduce the impacts related to mineral and mining resources to below the level of significance.