

3.13 UTILITIES AND SERVICE SYSTEMS

As a result of the Initial Study,¹ the City of Pasadena determined that the Arroyo Seco Master Plan (proposed project) had the potential to result in impacts to utilities and service systems. Therefore, this issue was carried forward for detailed analysis in this draft *Master Environmental Impact Report (Master EIR)*. This analysis was undertaken to identify opportunities to avoid, reduce, or otherwise mitigate potential significant impacts to the proposed project in relation to utilities and service systems. This analysis considers impacts that could occur from all phases of the proposed project in relation to utilities and service systems, including construction activities and operation.

The analysis of utilities and service systems includes a description of the regulatory framework that guides the decision-making process, existing conditions of the proposed project area, thresholds for determining if the proposed project will result in significant impacts, anticipated impacts, mitigation measures, and level of significance after mitigation.

3.13.1 Regulatory Framework

This regulatory framework identifies the state and local statutes guidelines that should be considered by the City of Pasadena when rendering decisions on projects involving such activities.

FEDERAL

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,

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.

assisted, conducted or approved by a federal agency...". In making a decision on the issuance of federal grant monies for elements of the 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." A NEPA document may be needed for the proposed project or the EIR may be accepted as the NEPA document at the discretion of the NEPA lead agency.

STATE

California Solid Waste Reuse and Recycling Access Act

The California Solid Waste Reuse and Recycling Access Act of 1991² requires each jurisdiction to adopt an ordinance by September 1, 1994 requiring each development project to provide an adequate storage area for collection and removal of recyclable materials. Development and operation of the proposed project would be subject to the requirements of this Act.

² Public Resources Code, § 42900 et. seq.: "California Solid Waste Reuse and Recycling Access Act of 1991."

CITY OF PASADENA

City of Pasadena Municipal Code

The Pasadena Municipal Code³ sets forth the minimum standards, provisions, and requirements for the safe construction, maintenance, operation, and the general supervision of utilities and sewers within the City of Pasadena.

City of Pasadena Department of Water and Power, Urban Water Management Plan

The City of Pasadena's urban water management plant is in compliance with the California Urban Water Management Planning Act,⁴ which requires urban water suppliers to initiate planning strategies that make every effort to ensure the appropriate level of reliability in its water service sufficient to meet the needs of its various categories of customers during normal, dry, and multiple dry-water years.

City of Pasadena Department of Public Works and Transportation, Solid Waste Management Division, Source Reduction and Recycling Element, Solid Waste Management Action Plan

The City of Pasadena's Solid Waste Management Action Plan was implemented to divert 50 percent of the City's solid waste away from landfills through recycling, composting, and source-reduction programs. The proposed project would be subject to the requirements of the City's Solid Waste Management Action Plan.

3.13.2 Existing Conditions

The City of Pasadena Department of Public Works and Transportation (PWT) operates and maintains storm drain, sewage management, solid waste, and wastewater systems

³ Pasadena Municipal Code, Title 13, Utilities and Sewers.

⁴ California Water Code, § 10610 et. seq.: "Urban Water Management Planning Act."

and services within the Upper Arroyo Seco (including the Hahamongna Watershed Park , the Central Arroyo Seco (including the Rose Bowl), and the Lower Arroyo Seco.

The City of Pasadena Department of Water and Power (DWP) owns and operates the potable water delivery systems located within the Arroyo Seco Park, which includes water spreading basins used to recharge the Raymond Basin Aquifer, and three municipal groundwater supply wells located in the Hahamongna Watershed Park (HWP), the Ventura Well, Well 52, and the Arroyo Well. DWP water supply well Windsor is outside, but approximate to the HWP. Approximately 21 groundwater monitoring wells, installed by Jet Propulsion Laboratory (JPL), are located in the HWP for the purpose of assessing groundwater contamination originating from JPL (Figure 3.13.2-1, *Existing Wells in Hahamongna Watershed Park*). The City of Pasadena obtains approximately 40 to 50 percent of its municipal water supply from groundwater wells, with the remainder supplied by the Metropolitan Water District of Southern California. The City of Pasadena can treat contaminated groundwater in a water treatment plant located in the northeast portion of HWP.⁵

Potable water is provided to HWP by three water mains that serve park users, resource management agencies within the HWP, and other customers in the Oak Grove Park area (Figure 3.13.2-2, *Existing Water Mains in Hahamongna Watershed Park*). Potable water is provided to the Central Arroyo Seco by a network of water lines throughout the park (Figure 3.13.2-3, *Existing Water Lines in the Central Arroyo Seco*).⁶

The DWP and Southern California Edison Company provide electrical service via overhead transmission lines (Figure 3.13.2-4, *Existing Overhead Transmission Lines*). General Telephone Company and local cable companies also utilize power poles within the HWP.⁷

⁵ City of Pasadena, Parks and Natural Resources Division, 2001c. *Hahamongna Watershed Park Master Plan*. Contact: 175 North Garfield, Second Floor, Pasadena, CA 91109.

⁶ City of Pasadena, Parks and Natural Resources Division, 9 July 2001b. *Draft Central Arroyo Master Plan*. Contact: 175 North Garfield, Second Floor, Pasadena, CA 91109.

⁷ City of Pasadena, Parks and Natural Resources Division, 2001c.

Southern California Gas Company provides natural gas through two lines within the HWP (Figure 3.13.2-5, *Existing Natural Gas & Sewer Lines in Hahamongna Watershed Park*). One 12-inch high-pressure underground line traverses the HWP from Kent Street to Foothill Blvd., and one smaller line leads from the west end of La Canada-Verdugo Road that supplies gas to the dam keeper's house and facilities. The Oak Grove Drive main sewer is the solitary sewer system that runs within or near to the HWP (Figure 3.13.2-4, *Existing Natural Gas & Sewer Lines in Hahamongna Watershed Park*). The line starts from JPL and runs south along Oak Grove Drive continuing into the Central Arroyo Seco. The sewer line handles the capacity for La Cañada-Flintridge as well as JPL.⁸ Central Arroyo Seco sewer lines serve primarily the southeastern portion of the park due to the density of park services located in this area (Figure 3.13.2-6, *Existing Sewer Lines in the Central Arroyo Seco*).⁹ These sewer lines carry effluent to the County of Los Angeles outfall in South Pasadena.

Twenty-six storm drains discharge into the HWP basin, originating from JPL and the adjacent residential neighborhoods of Altadena, Pasadena, and La Cañada-Flintridge (Figure 3.13.2-7, *Existing Storm Drains in Hahamongna Watershed Park*). No industrial zoned areas drain into the HWP basin. In general, the storm drains on the east side of the HWP are old and require renovation or repair to assure adequate storm run-off control.¹⁰ The drains are constructed primarily of steel and concrete, and the enclosed drains range in diameter from 6 to 84 inches. A complete description of each storm drain can be found in the Hahamongna Watershed Park Master Plan.¹¹ There are at least 11 storm drains discharging into the Central Arroyo Seco, originating from the neighboring residential streets, parks uses, and parking lots. With the exception of the recently renovated storm drains surrounding the Rose Bowl, the storm drains do not

⁸ City of Pasadena, Parks and Natural Resources Division, 2001c.

⁹ City of Pasadena, Parks and Natural Resources Division, 2001b.

¹⁰ City of Pasadena, Parks and Natural Resources Division, 2001c.

¹¹ City of Pasadena, Parks and Natural Resources Division, 2001c.

meet current needs. Several of the catch basins have ruptured or rotted out, and many of the steel drains have collapsed. There may also be additional storm drains in the Central Arroyo Seco that the City of Pasadena can no longer locate.¹²

Wastewater treatment for the proposed project area is the responsibility of the County Sanitation Districts of Los Angeles County.¹³ The wastewater generated by the proposed project would be treated at either the Whittier Narrows Water Reclamation Plant (WRP) located near the City of South El Monte or the Los Coyotes WRP located in the City of Cerritos. The Whittier Narrows WRP has a design capacity of 15.0 million gallons per day (mgd), and currently processes an average flow of 9.4 mgd; the Los Coyotes WRP has a design capacity of 37.5 mgd, and currently processes an average flow of 36.4 mgd. The trunk sewer lines that serve the project area are listed in Table 3.13.2-1, *Existing Trunk Sewer Lines*.

**TABLE 3.13.2-1
EXISTING TRUNK SEWER LINES**

NAME	LOCATION	SIZE (diameter in inches)	DESIGN CAPACITY (mpg)	PEAK FLOW (mgd)	LAST MEASURED
West Side Trunk Sewer (District No. 16)	Arroyo Drive at Columbia Street	21	5.5	1.9	1994
Pasadena East- West Interceptor Trunk Sewer (District No. 16)	Maple Street at Marengo Avenue	30	17.2	2.1	1999

¹² City of Pasadena, Parks and Natural Resources Division, 2001b.

¹³ Gil Weiss, 22 January 2002. *Personal Communication*. City of Pasadena Department of Public Works.

Lincoln Avenue Trunk Sewer (District No. 17)	Lincoln Avenue at Palm Street	10	0.8	0.2	1998
La Canada WRP Outfall Trunk Sewer (District No. 28)	Foothill Boulevard at Oak Grove Drive	21	5.0	0.03	1998

The City of Pasadena Department of Public Works, Solid Waste Division, is permitted by ordinance to use the Scholl Canyon Landfill (7721 N. Figueroa, Glendale, CA 91201) to deposit solid waste collected in the Arroyo Seco. The City of Pasadena Solid Waste Division is responsible for the majority of the solid waste collection in the City of Pasadena, including collection in the Arroyo Seco.

Hahamongna Watershed Park

The HWP includes Oak Grove Park, Devil's Gate Dam, Johnson Field, equestrian staging areas, multi-use trails, groundwater wells, water conservation spreading basins, a water treatment plant, asphalt-paved parking areas, various maintenance buildings, and public restrooms.

Central Arroyo Seco

The Central Arroyo Seco contains the Rose Bowl, the Rose Bowl Aquatic Center, Jackie Robinson Baseball Field, tennis courts, Brookside Golf Course and Clubhouse, multi-use trails, equestrian loop, multi-purpose fields, Rosemont Pavilion, an amphitheater, Brookside Park, and associated asphalt-paved parking.

Lower Arroyo Seco

The Lower Arroyo Seco contains a natural park, fly-casting pond and clubhouse, archery range and clubhouse, and multi-use trails for walking, jogging, cycling, and equestrian use.

Rose Bowl Use Plan

The Rose Bowl Operating Company (RBOC) has recommended that the City Council approve a Rose Bowl Use Plan¹⁴ that would allow 25 major events, or displacement events, to be permitted annually. The definition of a major event is an event that has a minimum of 20,000 attendees.

Design Guidelines

The *Arroyo Seco Design Guidelines* would establish standards of signage at entrances throughout the park.

3.13.3 Significance Thresholds

The City of Pasadena considers a project to have a significant impact on utilities and service systems if the project would result in the following:

- Exceeds wastewater treatment requirements of the applicable Regional Water Quality Control Board
- Requires or results in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects
- Requires or results in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects
- Lacks sufficient water supplies available to serve the project from existing entitlements and resources or will require new or expanded entitlements

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

- Results in a determination by the wastewater treatment provider that serves or may serve the project that does not have adequate capacity to serve the project's projected demand in addition to the provider's existing commitments
- Is not served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs
- Does not comply with federal, state, and local statutes and regulations related to solid waste

3.13.4 Impact Analysis

Implementation of the proposed project would temporarily impact utilities and service systems due to the construction, renovation, or relocation of storm drains, sewage systems, water transport systems (pump stations), and overhead power and communication lines primarily within the HWP. However, because construction and renovation activities would be temporary in nature, these impacts would not have a long-term effect.

3.13.4.1 Hahamongna Watershed Park

3.13.4.1.1 Significant Impacts

Implementation of the proposed project would include the renovation of five existing restroom facilities and the construction of four new restroom facilities in HWP. Increased usage would be expected from the upgraded and new restroom facilities, resulting in the only addition to the amount of wastewater generated in the proposed project area. Additionally, three existing septic tanks would be pumped out, cleaned, backfilled with sand and abandoned in place. The septic system would be replaced by a new sewage collection system that would include the construction of three sewage lift stations. The construction activities necessary to accomplish these tasks would temporarily impact wastewater services in HWP, requiring mitigation measures to reduce the impacts to below the level of significance. Additionally, construction and

renovation activities would generate solid waste that would contribute to cumulative impacts to solid waste management facilities in the City of Pasadena requiring implementation of mitigation measures to reduce potential impacts to below the level of significance.

Implementation of the proposed project would be expected to result in a significant impact on Arroyo Seco solid waste disposal requiring mitigation measures to reduce the impacts to below the level of significance. The City of Pasadena Solid Waste Division is permitted by ordinance to use the Scholl Canyon Landfill (7721 N. Figueroa, Glendale, CA 91201) for depositing solid waste collected in the Arroyo Seco. The City of Pasadena Solid Waste Division is responsible for the majority of the solid waste collection in the City, including collection in the Arroyo Seco, with the remaining collection being contracted out by the City to private companies. Although the majority of the design components of the proposed project are upgrading existing facilities, additional park use could result in a significant increase in the amount of solid waste generated in the Arroyo Seco requiring implementation of mitigation measures to reduce potential impacts to below the level of significance.

Implementation of the proposed project would result in the improvement of storm drains to increase storm run-off control. The construction activities necessary to repair or renovate the existing storm drains would temporarily impact the storm drain system in HWP, requiring implementation of mitigation measures to reduce potential impacts to below the level of significance.

Implementation of the proposed project would result in the underground relocation of 3,000 feet of an existing overhead power line, and the site relocation of three more existing communication/power lines. The construction activities necessary to bury and relocate the power/communication lines would temporarily impact the power/communication system that serves the HWP, requiring implementation of mitigation measures to reduce potential impacts to below the level of significance.

3.13.4.1.2 Issues Found Not to Be Significant

Implementation of the proposed project is not expected to exceed wastewater

treatment requirements of the Regional Water Quality Control Board. Wastewater treatment for the proposed project area is the responsibility of the County Sanitation Districts of- Los Angeles County.¹⁵ Discharges from the upgraded existing restroom facilities and new restroom facilities in HWP would be the only addition to the amount of wastewater generated in the proposed project area. These improvements would not significantly alter the current discharge of wastewater to main sewer lines.¹⁶

Implementation of the proposed project would result in the construction of new and the renovation of existing sewer systems (including the construction of three sewage lift stations), and the abandonment of three existing septic tanks. These activities would be expected to facilitate the operation of the HWP wastewater system.

The repair and renovation of existing storm drains is expected to have a beneficial impact to storm drain run-off control in HWP.

3.13.4.2 Central Arroyo Seco

3.13.4.2.1 Significant Impacts

No significant impacts to utilities and service systems within the Central Arroyo Seco were identified.

3.13.4.2.2 Issues Found Not to Be Significant

Implementation of the proposed project would not result in significant impacts to utilities and services systems within the Central Arroyo Seco.

¹⁵ Gil Weiss, 2002.

¹⁶ Brad Boman. *Personal Communication*. City of Pasadena Department of Water and Power.

3.13.4.3 Lower Arroyo Seco

3.13.4.3.1 Significant Impacts

The proposed project includes the construction of one new restroom facility, and the renovation of an existing restroom facility, the construction of a sewage lift station, and the construction of sewage lines in the Casting Clubhouse and Memorial Grove areas. The construction activities necessary to accomplish these tasks would temporarily impact the wastewater services in the Lower Arroyo Seco, requiring implementation of mitigation measures to reduce potential impacts to below the level of significance.

3.13.4.3.2 Issues Found Not to Be Significant

Implementation of the proposed project would not result in long-term significant impacts to utilities and service systems in the Lower Arroyo Seco.

3.13.4.4 Rose Bowl Use Plan

3.13.4.4.1 Significant Impacts

Implementation of the Rose Bowl Use Plan¹⁷ portion of the proposed project would not result in significant impacts to utilities and service systems.

3.13.4.4.2 Issues Found Not to Be Significant

The proposed project includes a Rose Bowl Use Plan¹⁸ that would result in the increase of major events held in the Rose Bowl. The definition of a major event is an event that has a minimum of 20,000 attendees. With the exception of 1994, there have been no

¹⁷ City of Pasadena, 2000.

¹⁸ Ibid.

more than 14 major events in any year. The increase in the annual number of major events held at the Rose Bowl would not result in significant impacts to utilities and service systems in the Central Arroyo.

3.13.4.5 Design Guidelines

The *Arroyo Seco Design Guidelines* establish standards of signage at entrances throughout the park. Additionally, the proposed project includes plans for vehicular and pedestrian signage at all entrances to the Upper, Central, and Lower Arroyo Seco Park. The *Arroyo Seco Design Guidelines* do not include elements that would result in significant impacts to utilities and service systems.

3.13.5 Mitigation Measures

Measure Utilities and Service Systems- 1

The City of Pasadena shall ensure that the new sewage collection system (including construction of three sewage lift stations) described for the proposed project is completed and operational prior to initiation of renovation and construction of restroom facilities. Extant restroom facilities shall remain open during construction of the new sewage collection system. The plans and specifications for each construction project requiring temporary closure of existing restroom facilities shall specify that the construction contractor shall be required to maintain temporary restroom facilities in place throughout the duration of restroom closures resulting from construction or expansion of recreation facilities. Renovated restrooms shall be connected to the newly constructed and operational sewer facilities. New restrooms shall also be connected to the newly constructed and operational sewer facilities. Once renovation and construction of restroom facilities is completed, the City of Pasadena shall empty, clean, and backfill with sand the three existing septic tanks currently serving the extant HWP restroom facilities.

Measure Utilities and Service Systems-2

Prior to completion of the plans and specifications, the City of Pasadena shall ensure

that the plans and specifications clearly state that the construction contractor shall work with the City of Pasadena Department of Public Works and Transportation to identify and implement programs for minimizing solid waste generated during construction. These programs will include, at a minimum, recycling of asphalt and concrete paving materials, and balance of graded soil on site to the maximum extent feasible.

Measure Utilities and Service Systems-3

The City of Pasadena shall implement and maintain solid waste recycling programs within the Arroyo Seco following completion of construction activities to minimize the amount of solid waste generated through passive and active recreation use being diverted to landfills. Wherever trash receptacles are provided through the Arroyo Seco, a recycling receptacle for plastic, aluminum, and metal shall also be provided. Signage encouraging patrons to recycle shall be posted approximate to each recycling receptacle.

Measure Utilities and Service Systems-4

Prior to completion of the plans and specifications, the City of Pasadena shall ensure that the plans and specifications clearly state that the construction contractor shall install and/or relocate replacement electrical power/communication lines underground or above ground as required and shall ensure that the new electrical power/communication lines are operational prior to disconnecting and removing overhead electrical power lines. At least one month prior to disconnecting power lines, the City of Pasadena shall notify all affected power customers of the upcoming power/communications interruption.

3.13.5 Level of Significance after Mitigation

Incorporation of Mitigation Measures Utilities and Service Systems 1 through 4 would reduce the impacts related to utilities and service systems to below the level of significance.