

**CITY OF PASADENA
PARKS & NATURAL RESOURCES DIVISION
CITY YARDS
233 W. MOUNTAIN ST.
PASADENA, CA 91103**

MASTER EIR INITIAL STUDY ENVIRONMENTAL CHECKLIST

In accordance with the Environmental Policy Guidelines of the City of Pasadena, this analysis and/or Environmental Assessment Form (EAF) and supporting data constitute the Initial Study for the subject project. This Initial Study provides the assessment for determining whether the project may have a significant effect on the environment. CEQA allows for the limited environmental review of subsequent projects under the City's Arroyo Seco Master Plan Master EIR. This Initial Study Environmental Checklist is used to determine whether the Eastside Neighborhood & JPL Connector Trail project is "within the scope" of the project analyzed in the Arroyo Seco Master Plan Master EIR (SCH# 2000091062) (Public Resources Code § 21157.1). If the Initial Study supports such a conclusion, the City may issue a finding of conformity. If the Initial Study does not support the aforementioned conclusion because (1) the project has additional effects on the environment that were not addressed in the Master EIR and/or (2) additional mitigation measures or alternatives are required, then the City must circulate the resulting Mitigated Negative Declaration pursuant to CEQA Guidelines Article 6 (Sections 15070 through 15075) or determine the need for the preparation of a Focused EIR.

SECTION I – PROJECT INFORMATION

1. Project Title:

Eastside Neighborhood & JPL (Altadena) Connector Trail

2. Lead Agency Name and Address:

City of Pasadena, Parks & Natural Resources Division, 233 W. Mountain St., Pasadena, CA 91103
(for U.S. Mail: 100 N. Garfield Ave., Rm. 212, Pasadena, CA 91109)

3. Contact Person and Phone Number:

Rosa Laveaga, Arroyo Seco Project Supervisor, (626) 744-3883

4. Project Location:

The proposed project is located in the Hahamongna Watershed Park area of the Arroyo Seco, in the City of Pasadena, Los Angeles County, CA. The proposed project involves improving an existing 1,619-foot long pedestrian and equestrian trail that extends (in three segments) from the western terminus of Altadena Drive to a Jet Propulsion Laboratory (JPL) parking lot that is accessed via Windsor Avenue (north of the Windsor Avenue/Ventura Street intersection). A portion of the proposed trail improvements would occur on the Gabrieliño National Recreational Trail. See **Figure 1**.

5. Project Sponsor's Name and Address:

The City of Pasadena, Parks & Natural Resources Division, 233 W. Mountain St., Pasadena, CA 91103 (for U.S. Mail: 100 N. Garfield Ave., Rm 212, Pasadena, CA 91109)

6. General Plan Designation:

Open Space

7. Zoning:

Open Space

8. Description of the Project:

The project consists primarily of restoration and trailhead improvements that include resurfacing and drainage enhancements along the northern entrance to the Hahamongna Watershed Park trail system and the Gabrieliño National Recreation Trail. The proposed improvements correspond with project #2.3.1 "Hahamongna Watershed Park" in the Arroyo Seco Master Plan Master EIR. Specifics of the project are depicted on Figure 2 and include the following:

- Removal of a small portion of asphalt within the Jet Propulsion Laboratory (JPL) Employee parking area;
- Removal of fencing and installation of boulders to define trail corridor that bisects the JPL parking area;
- Revegetation of the JPL parking landscape with native trees and shrubs;
- Installation of a Rock Down Drain along the east side of the JPL parking area that connects to the East Rim Trail;
- Repair the existing drainage along the East Rim Trail connector by installing a cobble swale along the inside edge at mid-section with wear surface;
- Underground the storm drain system starting at the storm drain inlet at the eastside of the Gabrieliño Trail and extending to the west side of the East Rim Trail Connector;
- Raise the surface elevation at the northern intersection of Gabrieliño Trail and East Rim Trail Connector to decrease erosion on the East Rim Connector to the JPL parking area due to downhill stormwater runoff;
- Make improvements to the trail surface along Gabrieliño Trail including a cross drainage swale;
- Install trailhead directional signage along the East Rim and Gabrieliño Trail connectors and at the entrance of the East Rim Trail starting along the west terminus of Altadena Drive;
- Improvements to the Gabrielino Trailhead;
- Installation of a new drinking fountain at the north connector of East Rim and Gabrieliño trail;
- Diversion of stormwater off the northern point of the East Rim Trail and;
- Installation of a stormwater retention basin.

- 9. Surrounding Land Uses and Setting:** The project area is located at the northern boundary of the Hahamongna Watershed Park. Within the Hahamongna Watershed Park, to the east of the project site, is the Jet Propulsion Laboratory (JPL). The Behner Water Treatment Plant is located east of the East Rim and Gabrielino Trail connectors with the East Rim Trail extending from the north of the treatment plant to the west end of the facility.
- 10. Other public agencies whose approval is required (e.g. permits, financing approval, or participation agreement):** The project is being undertaken by the City of Pasadena with the assistance of federal transportation funds administered by the State of California Resources Agency, Department of Parks and Recreation (DPR). As such, the proposed project will require a Contract Approval from DPR.

Figure 1: Project Location Map

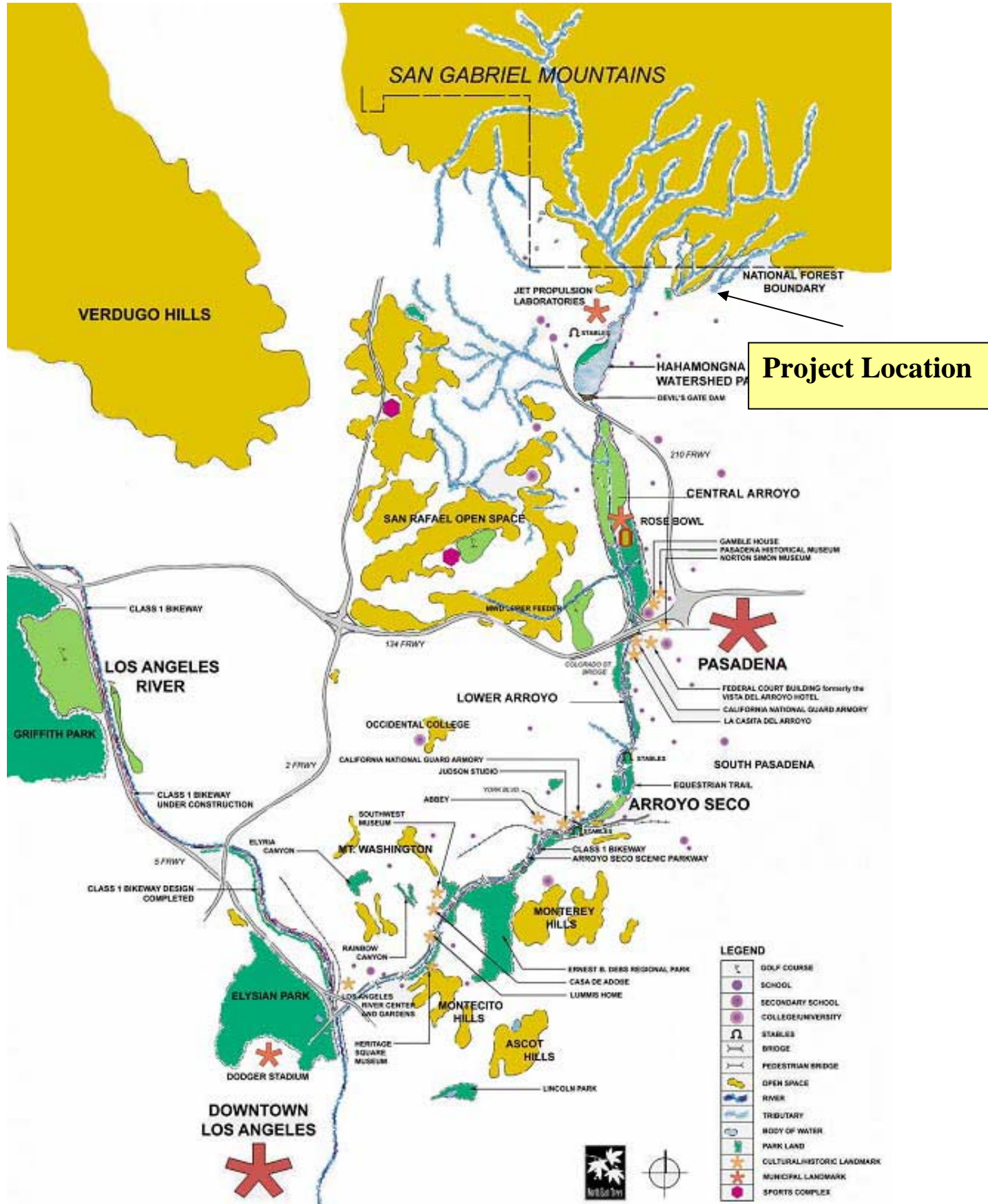
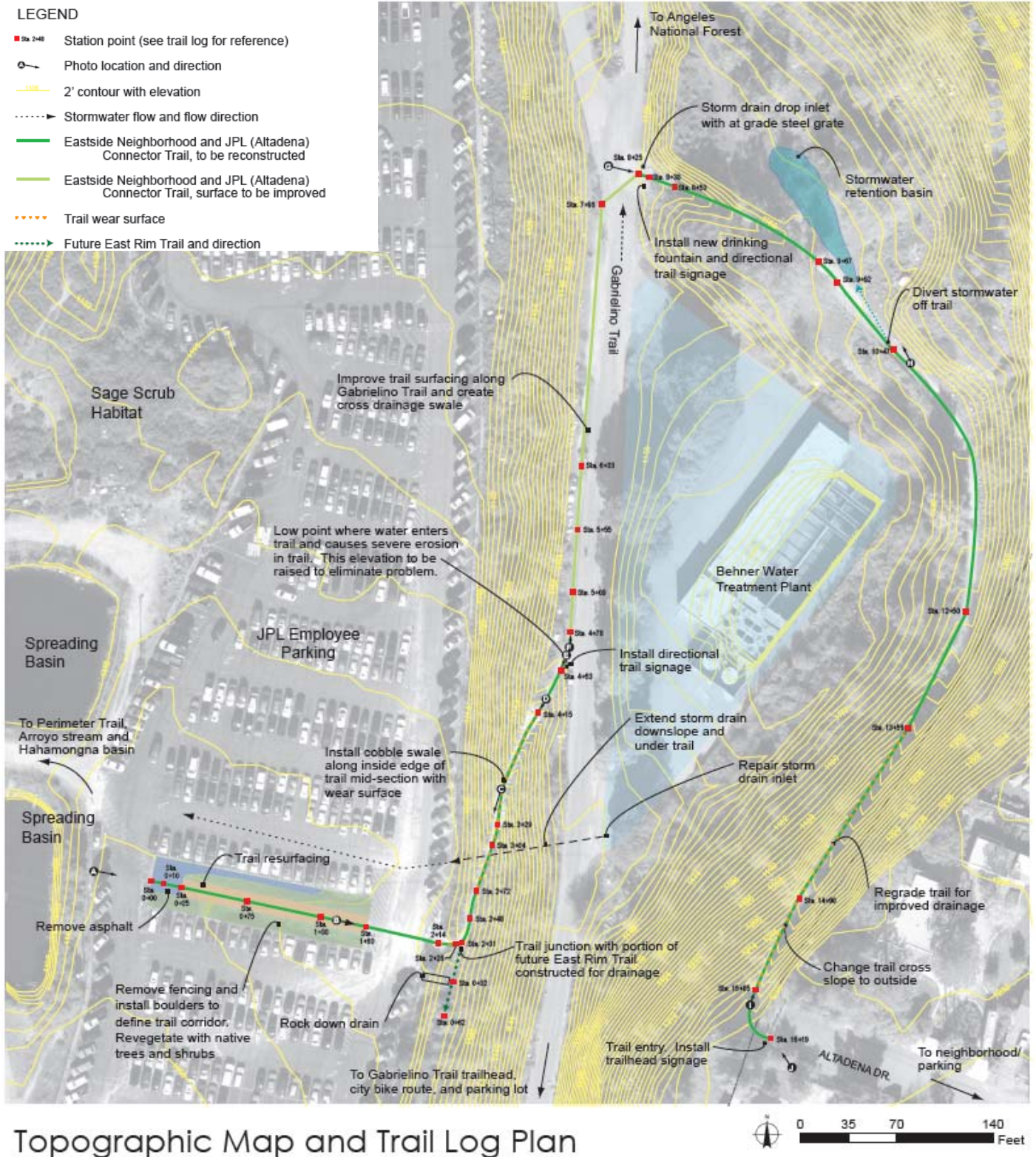


Figure 2: Proposed Improvements



ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED:

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact" as indicated by the checklist on the following pages.

	Aesthetics		Geology and Soils		Population and Housing
	Agricultural Resources		Hazards and Hazardous Materials		Public Services
	Air Quality		Hydrology and Water Quality		Recreation
	Biological Resources		Land Use and Planning		Transportation/Traffic
	Cultural Resources		Mineral Resources		Utilities and Service Systems
	Energy		Noise		Mandatory Findings of Significance

DETERMINATION: (to be completed by the Lead Agency)

On the basis of this initial evaluation:

I find that the project is within the scope of the Master EIR and no new significant environmental effects as defined in Public Resources Code Section 21158 that were not defined in the MEIR are present and that no new or additional mitigation measures or alternatives are required. This Initial Study supports this conclusion and the City will issue a FINDING OF CONFORMITY.	
I find that, while the project is identified in the MEIR and the MEIR adequately analyses cumulative impacts, growth-inducing impacts, and irreversible significant effects for the project, the proposed project is not within the scope of the Master EIR because one or more new or additional significant environmental effects will result from the project. Feasible mitigation measures or alternatives are incorporated to avoid or mitigate the identified effects to a level of insignificance and, therefore, a MITIGATED NEGATIVE DECLARATION will be prepared.	X
I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment., but at least effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards , and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.	

 / June 12, 2009
 Prepared By/Date

John M. Bellas
 Printed Name

Negative Declaration/Mitigated Negative Declaration adopted on: _____

Adoption attested to by: _____
 Printed name/Signature Date

EVALUATION OF ENVIRONMENTAL IMPACTS:

- 1) A brief explanation is required for all answers except “No Impact” answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A “No Impact” answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A “No Impact” answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).
 - 2) All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
 - 3) Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with new mitigation, less than significant with mitigation from the MEIR applied, or less than significant.” Potentially Significant Impact’ is appropriate if there is substantial evidence that an effect is significant. If there are one or more “Potentially Significant Impact” entries when the determination is made, an EIR is required.
 - 4) “Negative Declaration: Less Than Significant With Mitigation Incorporated” applies where the incorporation of mitigation measures has reduced an effect from “Potentially Significant Unless Mitigation Incorporated” applies where the incorporation of mitigation measures has reduced an effect from “Potentially Significant Impact” to a “Less than Significant Impact.” The Lead Agency must describe the mitigation measures and briefly explain how they reduce the effect to a less than significant level (mitigation measures from Section 20, “Earlier Analysis,” may be cross-referenced).
 - 5) Earlier analysis may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration. See CEQA Guidelines Section 15063(c)(3)(D). Earlier analyses are discussed in Section 20 at the end of the checklist.
 - a) Earlier Analysis Used. Identify and state where they are available for review.
 - b) Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.
 - c) Mitigation Measures. For effects that are “less than Significant with Mitigation Measures Incorporated,” describe the mitigation measures which were incorporated or refined from the earlier documents and the extent to which address site-specific conditions for the project.
 - 6) Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.
 - 7) Supporting Information Sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.
 - 8) The explanation of each issue should identify:
 - a) The significance criteria or threshold, if any, used to evaluate each question; and
 - b) The mitigation measure identified, if any, to reduce the impact to less than significant
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Not Within the Scope of the MEIR		Within the Scope of the MEIR		
Potentially Significant Impact	Significant Unless New Mitigation is Incorporated	Less than Significant with Incorporation of Mitigation from the MEIR	Less than Significant Impact	No Impact/No Additional Impact

SECTION II - ENVIRONMENTAL CHECKLIST FORM

1. BACKGROUND.

Date checklist submitted: June 4, 2009
 Department requiring checklist: Public Works, Parks and Natural Resources Division
 Case Manager: Rosa Laveaga, Arroyo Seco Project Supervisor

2. ENVIRONMENTAL IMPACTS. (Explanations of all answers are required):

Not Within the Scope of the MEIR		Within the Scope of the MEIR		
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3. AESTHETICS. Would the project:

a. *Have a substantial adverse effect on a scenic vista?* ()

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? The proposed project does not involve the construction of structures that would impede views, nor does the project involve the use of lighting that could affect views. Conversely, the project involves minor grading and drainage improvements to the “Eastside Neighborhood” (EN)-“Jet Propulsion Laboratory (JPL) Connector Trail.” The potential effects of the Master Plan on scenic vistas was found to be not significant in the Arroyo Seco Master Plan Master EIR. Therefore, the project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d).

b. *Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?* ()

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? The only designated state scenic highway in the City of Pasadena is the Angeles Crest Highway (State Highway 2), which is located north of Arroyo Seco Canyon in the extreme northwest portion of the City. The project site is not within the viewshed of the Angeles Crest Highway; and thus, would have no impacts to a state scenic highway.

The Hahamongna Watershed Park is located along the Foothill Freeway (I-210) corridor, which is identified as “Eligible” in the State Scenic Highway Program and was identified in the 1987 Environmental Quality Element of the City’s General Plan as a Los Angeles County Recommended Scenic Highway. However, build out of the Master Plan was found to have no long-term effects on the views afforded by this corridor, as identified in the Arroyo Seco Master Plan Master EIR. Furthermore the project site is more than 4,000 feet from the Foothill Freeway (I-210) and does not involve any structures or changes in the landscape that would be visible from the freeway. Therefore, the project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d).

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Master Plan and therefore, the project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d).

4. AGRICULTURAL RESOURCES. In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Department of Conservation as an optional model to use in assessing impacts on agriculture and farmland. Would the project.

- a. *Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use? ()*

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? The Initial Study prepared for the Arroyo Seco Master Plan Master EIR found all potential impacts to agricultural resources to be not significant and were therefore not analyzed in the Master EIR. The zoning for the project does not contain any farmland designations, nor are any of the surrounding uses zoned or engaged in agricultural activities, nor does the site contain any Prime Farmland, Unique Farmland, or Farmland of Statewide Importance. Therefore, the project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d).

- b. *Conflict with existing zoning for agricultural use, or a Williamson Act contract? ()*

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? The Initial Study prepared for the Arroyo Seco Master Plan Master EIR found all potential impacts to agricultural resources to be not significant and were therefore not analyzed in the Master EIR. Furthermore, there are no Williamson Act contracts within the City of Pasadena. Therefore, the project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d).

- c. *Involve other changes in the existing environment, which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use? ()*

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? The Initial Study prepared for the Arroyo Seco Master Plan Master EIR found all potential impacts to agricultural resources to be not significant and were therefore not analyzed in the Master EIR. The zoning for the project does not contain any farmland designations, nor are any of the surrounding uses zoned or engaged in agricultural activities, nor does the site contain any Prime Farmland, Unique Farmland, or Farmland of Statewide Importance. Therefore, the project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d).

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5. AIR QUALITY. Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations. Would the project:

a. Conflict with or obstruct implementation of the applicable air quality plan? ()

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? The City of Pasadena is within the South Coast Air Basin (SCAB), which is bounded by the San Gabriel, San Bernardino, and San Jacinto Mountains to the north and east, and the Pacific Ocean to the south and west. The air quality in the SCAB is managed by the South Coast Air Quality Management District (SCAQMD).

The SCAB has a history of recorded air quality violations and is an area where both state and federal ambient air quality standards are exceeded. Because of the violations of the California Ambient Air Quality Standards (CAAQS), the California Clean Air Act requires triennial preparation of an Air Quality Management Plan (AQMP). The AQMP analyzes air quality on a regional level and identifies region-wide attenuation methods to achieve the air quality standards. These region-wide attenuation methods include regulations for stationary-source polluters; facilitation of new transportation technologies, such as low-emission vehicles; and capital improvements, such as park-and-ride facilities and public transit improvements.

The most recently adopted plan is the 2007 AQMP. This plan is the South Coast Air Basin’s portion of the State Implementation Plan (SIP). This plan is designed to achieve the 5 percent annual reduction goal of the California Clean Air Act.

The SCAQMD understands that southern California is growing. As such, the AQMP accommodates population growth and transportation projections based on the predictions made by the Southern California Association of Governments (SCAG). Thus, projects that are consistent with employment and population forecasts are consistent with the AQMP.

In addition to the region-wide AQMP, the City of Pasadena participates in a sub-regional air quality plan – the West San Gabriel Valley Air Quality Plan. This plan, prepared in 1992, is intended to be a guide for the 16 participating cities, and identifies methods of improving air quality while accommodating expected growth.

The proposed project is consistent with the Zoning and General Plan Land Use designations for the site. As a result, the project is consistent with the growth expectations for the region. The proposed project is therefore consistent with the AQMP and the West San Gabriel Valley Air Quality Plan, and would have no associated impacts.

b. Violate any air quality standard or contribute to an existing or projected air quality violation? ()

<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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WHY? Due to its geographical location and the prevailing off shore daytime winds, Pasadena receives smog from downtown Los Angeles and other areas in the Los Angeles basin. The prevailing winds, from the southwest, carry smog from wide areas of Los Angeles and adjacent cities, to the San Fernando Valley

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and to Pasadena in the San Gabriel Valley where it is trapped against the foothills. For these reasons the potential for adverse air quality in Pasadena is high.

Pasadena is located in a non-attainment area, an area that frequently exceeds national ambient air quality standards. The Arroyo Seco Master Plan Master EIR found that the project operations would not cause additional anticipated impacts to air quality from regional operational emissions or local operational emissions. However, short-term construction impacts were identified and remain significant after the implementation of Mitigation Measures Measure Air-1 through 11. Thus, the Arroyo Seco Master Plan Master EIR required a Statement of Overriding Conditions for the project as a component of its certification pursuant to Guidelines Section 15093. Therefore, since the proposed project is consistent with the Master Plan, the project’s short-term construction-related impacts have been previously deemed “acceptable” (Guidelines Section 15093(a)) under the umbrella of the Arroyo Seco Master Plan as a whole. Thus, the short-term impacts potentially caused by the project have previously been addressed through the certification of the EIR. Therefore, the project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d).

Construction emissions resulting from implementation of the project will be minimal and far below SCAQMD emissions thresholds. Construction activities will be limited to the use of one bobcat that will be used to conduct minor grading and trenching activities where drainage improvements (including a retention basin) will be installed. In addition, much of the work will be conducted by hand (trimming of brush and clearance activities) thus not requiring the use of equipment that would contribute to project emissions. Overall, the proposed project represents a small and negligible portion of the Hahamongna Watershed Park within the greater Arroyo Seco Master Plan (in terms of intensity and acreage of construction activity). As a result, impacts are considered less than significant with the implementation of MEIR Mitigation Measures Air-1 through Air-11, as reiterated below. Therefore, the project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d).

It should be noted that the MEIR’s determination that short-term construction-related impacts are significant and unavoidable is based upon several projects being constructed simultaneously throughout the entire planning area, many of which are larger than the proposed project. Given the small size of the proposed project and negligible emissions the actual emissions from the proposed project would be well below SCAQMD and would therefore be less than significant.

Applicable Mitigation Measures from the Arroyo Seco Master Plan Master EIR:

- Measure Air –1: The City of Pasadena shall require wetting of soils for all grading activities undertaken to implement the specified project components that are expected to affect areas of greater than 1 acre in size as a means of reducing PM10 emissions to the maximum extent practicable. Prior to advertising for construction bids for the Upper Arroyo Seco improvements, the Central Arroyo Seco improvements, or the Lower Arroyo Seco improvements, the City of Pasadena Department of Public Works shall ensure that the plans and specifications include the requirement for the construction contractor to ensure that soils are moistened prior to grading and soil moisture content is maintained at a minimum of 12 percent for all grading activities. The construction contractor shall demonstrate compliance with this measure through the submittal of monthly monitoring reports to the City of Pasadena Department of Public Works.
- Measure Air –2: The City of Pasadena shall require wetting of soils for all grading activities undertaken to implement the specified project components that are expected to affect areas of greater than 1 acre in size as a means of reducing PM10 emissions to the maximum extent practicable. Prior to advertising for construction bids for the Upper Arroyo Seco improvements, the

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Central Arroyo Seco improvements, or the Lower Arroyo Seco improvements, the City of Pasadena Department of Public Works shall ensure that the plans and specifications include the requirement for the construction contractor to ensure that surfaces undergoing active grading and all other exposed surfaces be watered at least twice a day under calm conditions. Surfaces shall be watered as often as needed on days that are windy (when wind speed is less than 25 miles per hour) or during very dry weather to maintain a surface crust and prevent the release of visible emissions from the construction site. The construction contractor shall demonstrate compliance with this measure through the submittal of monthly monitoring reports to the City of Pasadena Department of Public Works.

- Measure Air –3: The City of Pasadena shall require soil treatment to stabilize soils for all exposed cuts or all slopes as a means for reducing PM10 to the maximum amount practicable. Prior to advertising for construction bids for the Upper Arroyo Seco improvements, the Central Arroyo Seco improvements, or the Lower Arroyo Seco improvements, the City of Pasadena Department of Public Works shall ensure that the plans and specifications include the requirement for the construction contractor to ensure that any area that would be exposed for extended periods would be treated with a non-toxic soil conditioner to stabilize soil or would be temporarily planted with vegetation.
- Measure Air –4: The City of Pasadena shall require soil treatment to stabilize soils for all exposed cuts or all slopes as a means for reducing PM10 to the maximum amount practicable. Prior to advertising for construction bids for the Upper Arroyo Seco improvements, the Central Arroyo Seco improvements, or the Lower Arroyo Seco improvements, the City of Pasadena Department of Public Works shall ensure that the plans and specifications include the requirement for the construction contractor to ensure that non-toxic chemical stabilizers are applied within five working days of ceasing grading or water or dust suppressants are applied in sufficient quantity to maintain a stabilized surface. The construction contractor shall demonstrate compliance with this measure through the submittal of monthly monitoring reports to the City of Pasadena Department of Public Works.
- Measure Air –5: The City of Pasadena shall require construction contractors to wash equipment that would travel on public roads prior to leaving construction sites where equipment would be exposed to mud as a means of reducing PM10 emissions to the maximum extent possible. Prior to advertising for construction bids for the Upper Arroyo Seco improvements, the Central Arroyo Seco improvements, or the Lower Arroyo Seco improvements, the City of Pasadena Department of Public Works shall ensure that the plans and specifications include the requirement for the construction contractor to ensure that mud covered tires and undercarriages of trucks are washed prior to leaving construction sites. The construction contractor shall demonstrate compliance with this measure through the submittal of monthly monitoring reports to the City of Pasadena Department of Public Works.
- Measure Air –6: The City of Pasadena shall require construction contractors to maintain adjacent public roads free of mud and debris from the construction site on a daily basis, as a means of reducing PM10 emissions to the maximum extent practicable. Prior to advertising for construction bids for the Upper Arroyo Seco improvements, the Central Arroyo Seco improvements, or the Lower Arroyo Seco improvements, the City of Pasadena Department of Public Works shall ensure that the plans and specifications include the requirement for the construction contractor to provide for street sweeping, as needed, on adjacent roadways to remove dirt dropped by construction vehicles or mud that would otherwise be carried off by trucks departing project sites. The construction contractor shall demonstrate compliance with this measure through the submittal of monthly monitoring reports to the City of Pasadena Department of Public Works.

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- Measure Air –7: The City of Pasadena shall require that construction contractors cover all trucks hauling dirt on public roads as a means of reducing PM10 emissions to the maximum extent practicable. Prior to advertising for construction bids for the Upper Arroyo Seco improvements, the Central Arroyo Seco improvements, or the Lower Arroyo Seco improvements, the City of Pasadena Department of Public Works shall ensure that the plans and specifications include the requirement for the construction contractor to ensure that loads of dirt are securely covered with a tight fitting tarp on any truck leaving or entering the construction sites to bring fill dirt to the site or to dispose of excavated soil. The construction contractor shall demonstrate compliance with this measure through the submittal of monthly monitoring reports to the City of Pasadena Department of Public Works.

- Measure Air –8: The City of Pasadena shall require that grading activities cease during periods when winds exceed 25 miles per hour, as a means of reducing PM10 emissions to the maximum extent practicable. Prior to advertising for construction bids for the Upper Arroyo Seco improvements, the Central Arroyo Seco improvements, or the Lower Arroyo Seco improvements, the City of Pasadena Department of Public Works shall ensure that the plans and specifications include the requirement for the construction contractor to ensure that grading is ceased during periods when winds exceed 25 miles per hour. The construction contractor shall demonstrate compliance with this measure through the submittal of monthly monitoring reports to the City of Pasadena Department of Public Works.

- Measure Air –9: The City of Pasadena shall require that the construction contractor ensure that all cut and fill slopes are permanently protected from erosion as a means of reducing PM10 emissions to the maximum extent practicable. Prior to advertising for construction bids for the Upper Arroyo Seco improvements, the Central Arroyo Seco improvements, or the Lower Arroyo Seco improvements, the City of Pasadena Department of Public Works shall ensure that the plans and specifications include the requirement for the construction contractor to provide for permanent sealing of all graded areas at the earliest practicable time after soil disturbance. The construction contractor shall demonstrate compliance with this measure through the submittal of monthly monitoring reports to the City of Pasadena Department of Public Works.

- Measure Air –10: The City of Pasadena shall require the construction contractor to ensure that all construction equipment is maintained in peak working order, as a means of reducing NOx emissions to the maximum extent practicable. Prior to advertising for construction bids for the Upper Arroyo Seco improvements, the Central Arroyo Seco improvements, or the Lower Arroyo Seco improvements, the City of Pasadena Department of Public Works shall ensure that the plans and specifications include the requirement for the construction contractor to ensure that construction equipment is maintained in peak operating condition so as to reduce operation emissions. Specifications shall require the construction contractor to certify monthly to the City of Pasadena Department of Public Works that construction equipment is being maintained in peak operating condition.

- Measure Air –11: The City of Pasadena shall require of the construction contractor that all construction equipment not expected to be used for a period in excess of 15 minutes be turned off as a means of reducing NOx emissions to the maximum extent practicable. Prior to advertising for construction bids for the Upper Arroyo Seco improvements, the Central Arroyo Seco improvements, or the Lower Arroyo Seco improvements, the City of Pasadena Department of Public Works shall ensure that the plans and specifications require the construction contractor to shut off engines when not expected to be in use in excess of 15 minutes.

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Potentially Significant Impact	Significant Unless New Mitigation is Incorporated	Less than Significant with Incorporation of Mitigation from the MEIR	Less than Significant Impact	No Impact/No Additional Impact

c. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)? ()

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? The project's air pollutant emissions are an incremental portion of the air pollutant emissions considered in the MEIR. Therefore, the project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d). While the MEIR identified significant air quality impacts due to a projected exceedance of AQMD thresholds during the worst case construction emission days (see part 5(c)), the Arroyo Seco Master Plan Master EIR found that all potential cumulative impacts related to the project to be not significant.

d. Expose sensitive receptors to substantial pollutant concentrations? ()

<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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WHY? Single-family housing exists within close proximity to certain components of the project including the trail resurfacing and drainage improvements and directional signage close to Altadena Drive. These residences are considered sensitive receptors. However, long-term operational and local emissions were found to be not significant in the Arroyo Seco Master Plan Master EIR and, thus, would not expose sensitive receptors to substantial pollutant concentrations. Short-term impacts resulting from construction were found to be significant after the implementation of MEIR Mitigation Measures Air-1 through Air-11 (as reiterated above in Part 5.b). These impacts were deemed "acceptable" (Guidelines Section 15093(a)) through a Statement of Overriding Considerations set forth for the EIR. Thus, the short-term impacts potentially caused by the project have previously been addressed through the certification of the EIR. The project's air pollutant emissions are an incremental portion of the air pollutant emissions considered in the MEIR. Therefore, the project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d).

It should be noted that the MEIR's determination that short-term construction-related impacts are significant and unavoidable is based upon several projects being constructed simultaneously throughout the entire planning area, many of which are larger than the proposed project and not located near the sensitive receptors being discussed here. Thus the exposure is localized and estimated construction emissions from the project are below SCAQMD thresholds. See response 5(b). The proposed project would not generate any volumes or concentrations of air pollutants that could cause health affects on any sensitive receptors.

e. Create objectionable odors affecting a substantial number of people? ()

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? This type of use is (or is not) shown on the 1993 SCAQMD's CEQA Air Quality Handbook Figure 5-5 "Land Uses Associated with Odor Complaints." Therefore, the proposed project would not create objectionable odors, and would have no associated impacts.

Not Within the Scope of the MEIR		Within the Scope of the MEIR		
Potentially Significant Impact	Significant Unless New Mitigation is Incorporated	Less than Significant with Incorporation of Mitigation from the MEIR	Less than Significant Impact	No Impact/No Additional Impact

6. BIOLOGICAL RESOURCES. Would the project:

- a. *Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?*
()

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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WHY? Although Biological Resources were analyzed in the Arroyo Seco Master Plan Master EIR, the City of Pasadena conducted a more recent and focused Natural Environment Study (NES)¹ for the proposed project area to account for any natural changes to habitat or movement of any species of concern. The project’s NES is included as Appendix A of this Initial Study. The NES found a low to moderate potential for the occurrence of Nevin’s Barberry, Plummer’s Mariposa Lily, Parry’s Spineflower, and Mesa Horkelia within the proposed areas of disturbance for the project. The implementation of Mitigation Measures MM Bio 1-3 listed below will reduce the impacts to a less than significant level.

The possibility of impacts to Coastal California Gnatcatcher is remote according to the NES. Potential for impacts to Southern California Rufous-crowned Sparrow and other bird species, including raptors, known to nest in the area are moderate. The implementation of Mitigation Measure MM Bio 4 listed below will reduce the impacts to a less than significant level.

Potential impacts to San Diego Coast Horned Lizard and Coastal Western Whiptail and Coast Patch-nosed Snake are considered to be low and not significant. However, the implementation of Mitigation Measure MM Bio 5 would minimize impacts to these species.

The NES prepared for the project indicated that any impacts to the aforementioned plant species would be reduced or minimized through development of non-invasive trail construction and improvement methods (i.e. limiting of native vegetation trimming and removal to the greatest extent possible). Where sensitive plant species may occur, impact avoidance to these species can be achieved by either conducting a botanical inventory to conclusively determine their presence or absence. If present, avoidance of individual plants is recommended.

¹ AMEC Earth & Environmental, Inc. March 2009. Natural Environment Study (Minimal Impacts) Eastside Neighborhood and JPL (Altadena) Connector Trail, Hahamongna Watershed Park, City of Pasadena, Los Angeles County, California.

Not Within the Scope of the MEIR		Within the Scope of the MEIR		
Potentially Significant Impact	Significant Unless New Mitigation is Incorporated	Less than Significant with Incorporation of Mitigation from the MEIR	Less than Significant Impact	No Impact/No Additional Impact

MM Bio 1: In order to reduce the impacts to the identified potentially-occurring special status species and their habitat, construction and rehabilitation of trails within the project area shall be conducted using non-invasive trail construction and improvement techniques. These techniques shall seek to limit trimming and/or removal as well as ground disturbance, to the greatest extent possible, of native vegetation species. The City of Pasadena Department of Public Works/ Parks and Natural Resources Division shall review final trail plans and monitor their construction.

MM Bio 2: To preserve the potential occurrence of Nevin’s Barberry, Plummer’s Mariposa Lily, Parry’s Spineflower, and Mesa Horkelia, a botanical survey shall be conducted in their spring blooming period and compared with specific location of the trails. If any of these species are shown to exist, avoidance or salvage and transplant of the aforementioned species shall be conducted. Salvage and transplant shall conform to industry protocol. The City of Pasadena Department of Public Works/ Parks and Natural Resources Division shall review final trail plans and monitor their construction.

MM Bio 3: To preserve the native plant communities in the project area, when soil disturbance occurs within these communities, the top four (4) inches of soil shall be removed and stored temporarily and returned upon completion or used in habitat restoration efforts elsewhere throughout the project area. The City of Pasadena Department of Public Works/ Parks and Natural Resources Division shall review final trail plans and monitor the salvage, storage, and replacement of any topsoil located within native plant communities.

MM Bio 4: In order to avoid impacting Coastal California Gnatcatcher, Southern California Rufous-crowned Sparrow, and other bird species, including raptors, known to nest in the area, trail improvement construction activities shall be either avoided during the nesting season of these birds (February 1 through August 15) or at least one presence/absence clearance survey shall be conducted by a qualified biologist. If active nests are found, these areas must be avoided until fledglings have left the nest. The City of Pasadena Department of Public Works/ Parks and Natural Resources Division shall review trail improvement plans and contractor work plans to ensure that construction disturbance does not occur.

MM Bio 5: To avoid potential impacts to San Diego Coast Horned Lizard and Coastal Western Whiptail, and Coast Patch-nosed Snake trail construction should be limited to the winter while these lizards and snakes are in hibernation, *or*, trail construction workers should be educated as to the possible existence of these lizards and to avoid intentionally killing any and all wildlife. An initial clearance sweep of the area to be disturbed shall be conducted at which time these lizards would likely disperse of their own accord prior to any work. The City of Pasadena Department of Public Works/ Parks and Natural Resources Division shall be responsible for implementing this mitigation measure by reviewing contractor work plans and monitoring construction.

With the implementation of the above Mitigation Measures, substantial adverse effects on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service are expected to be less than significant.

Not Within the Scope of the MEIR		Within the Scope of the MEIR		
Potentially Significant Impact	Significant Unless New Mitigation is Incorporated	Less than Significant with Incorporation of Mitigation from the MEIR	Less than Significant Impact	No Impact/No Additional Impact

b. *Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, and regulations or by the California Department of Fish and Game or U.S. Fish and Wildlife Service? ()*

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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WHY? The NES prepared for the proposed project found no riparian habitat areas. However, southern coastal sage scrub is the dominant plant community in the project area. The NES found a low to moderate potential for the occurrence of Nevin's Barberry, Plummer's Mariposa Lily, Parry's Spineflower, and Mesa Horkelia, which are special status plants associated with the sage scrub community. See response 6(a). Implementation of Mitigation Measures MM Bio 1-3 (above) will reduce impacts to less than significant levels.

c. *Have a substantial adverse effect of federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means? ()*

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? The Arroyo Seco Master Plan Master EIR identified potential impacts to federally-protected wetlands. However, these impacts were specifically related to bridge construction, filling and dredging, and stream modifications that would take place in other portions of the Hahamongna Watershed Park. The proposed project will not involve any adverse effects or modification of federally-protected wetlands. Therefore, no impacts are expected. Therefore, the project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d).

d. *Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites? ()*

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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WHY? The Arroyo Seco Master Plan Master EIR found the potential impacts related to the interference of native resident or migratory fish or wildlife species or with resident or migratory wildlife corridors or impedance of the use of native wildlife nurseries to be not significant. However, the NES prepared for the project indicated the potential to interfere with birds protected under the MBTA and raptors protected by the California Department of Fish and Game Code which reside in the sage scrub areas and mature native and ornamental trees found in the landscaped area surrounding the Sunset Overlook trailhead, respectively. The implementation of Mitigation Measure MM Bio 4 (response 6(a)) will reduce the potential impacts to less than significant levels.

Not Within the Scope of the MEIR		Within the Scope of the MEIR		
Potentially Significant Impact	Significant Unless New Mitigation is Incorporated	Less than Significant with Incorporation of Mitigation from the MEIR	Less than Significant Impact	No Impact/No Additional Impact

e. Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance? ()

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? The only local ordinance protecting biological resources in the City of Pasadena is Ordinance No. 6896 "City Trees and Tree Protection Ordinance". The project site contains a small, protected Coast Live Oak in the area where the connector trail crosses the JPL parking lot. Project landscape improvements to this area, however, will not result in the removal of this oak tree. Thus, no impacts are expected.

f. Conflict with the provisions of an adopted Habitat Conservation Plan (HCP), Natural Community Conservation Plan (NCCP), or other approved local, regional, or state habitat conservation plan? ()

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? The Arroyo Seco Master Plan Master EIR found impacts related to adopted conservation plans, natural community conservation plans, or other approved habitat conservation plans to be not significant. Currently, there are no adopted Habitat Conservation or Natural Community Conservation Plans within the City of Pasadena. There are also no approved local, regional or state habitat conservation plans. Thus, no impacts are expected. Therefore, the project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d).

7. CULTURAL RESOURCES. Would the project:

a. Cause a substantial adverse change in the significance of a historical resource as defined in CEQA Guidelines Section 15064.5? ()

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? There are no known buildings, structures, natural features, works of art or similar objects on the site having a significant historic value to the City which are to be demolished, relocated, removed, or significantly altered by the project. Therefore, the proposed project would not cause a substantial adverse change in the significance of a historical resource, and the project would have no related impacts. Therefore, the project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d).

b. Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5? ()

<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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WHY? The City of Pasadena is located in an ethnographic area associated with the Native American population known as the Gabrieliño (Tongva). The term "Gabrieliño" is a reference to the direct association between the Native Americans of the San Gabriel Valley and the Mission San Gabriel de Archangel.

Not Within the Scope of the MEIR		Within the Scope of the MEIR		
Potentially Significant Impact	Significant Unless New Mitigation is Incorporated	Less than Significant with Incorporation of Mitigation from the MEIR	Less than Significant Impact	No Impact/No Additional Impact

Gabrieliño village sites have been associated with the La Canada-Flintridge, Pasadena, San Marino, and Altadena areas, although little evidence of these villages has been documented.

To assess the archaeological sensitivity of the project site a Phase I Cultural Resources Report² was prepared for the project by McKenna et al. (McKenna) in April 2009. This report is included as Appendix B of this Initial Study. Based on background research, coordination with Native American representatives, and field review, McKenna concludes, "...the Eastside Neighborhood and JPL Connector Trails Project Area is clear of any evidence of prehistoric or historical cultural resources." McKenna further states, "[b]ased on the negative findings within the project area, there is no need to complete any formal evaluations via the federal and State criteria for significance."

Despite the negative findings, McKenna recommends "that the area be considered somewhat sensitive for [archaeological] resources." Due to this sensitivity McKenna recommends archaeological monitoring during construction. As such, Measure Cultural-3 of the Master EIR, as reiterated below, is incorporated into the project. With the incorporation of this measure, the proposed project would not cause a substantial adverse change in the significance of an archaeological resource.

Applicable Mitigation Measures from the Arroyo Seco Master Plan Master EIR:

- ☒ Measure Cultural-3: The City of Pasadena shall minimize potential impacts to currently unknown cultural resources in native soils by requiring an archeologist to be present during grading in native soils. Grading in native soils is anticipated for specified components for each element of the Arroyo Seco Master Plan:

Hahamongna Watershed Park

- 16 surface parking areas
- 4 public restrooms
- Johnson Field expansion
- New trail segments

Central Arroyo Seco

- New pedestrian pathways

Lower Arroyo Seco

- 2 surface parking areas
- 2 public restrooms
- New trail segments
- New pedestrian pathways
- Placement of boulders of sufficient size to compress subsurface deposits

Prior to the initiation of grading activities in native soils, the City of Pasadena Department of Public Works shall ensure that the project specifications require a qualified archeologist to be present during grading activities within native soils. The archeologist shall be authorized to halt construction, if necessary, in the immediate area where buried cultural remains are encountered. Prior to the resumption of grading activities in the immediate vicinity of the cultural remains, the City of Pasadena Department of Public Works shall provide the archeologist with the necessary resources

² McKenna et al. 2009. A Phase I (CEQA) and Class III (NEPA) Cultural Resources Investigation for the Eastside Neighborhood and JPL Connector Trail Improvements Project Area of the Hahamongna Watershed Park in the City of Pasadena, Los Angeles County, California.

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to identify and implement a program for appropriate disposition (as specified by Section 15064.5 (e) of the State CEQA Guidelines). Completion of this measure shall be monitored and enforced by the City of Pasadena Department of Public Works.

c. *Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?* ()

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? The Arroyo Seco Master Plan Master EIR identified no existence of known unique geologic features. Furthermore, the Phase I Cultural Resources Report³ (Appendix B) prepared for the project concludes, "...the project area is not conducive to yielding vertebrate fossil specimens and the proposed project will not result in any adverse impacts to known fossil specimens." Therefore, the project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d).

d. *Disturb any human remains, including those interred outside of formal ceremonies?* ()

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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WHY? There are no known human remains on the site. The project site is not part of a formal cemetery and is not known to have been used for disposal of historic or prehistoric human remains. Thus, human remains are not expected to be encountered during construction of the proposed project. In the unlikely event that human remains are encountered during project construction, State Health and Safety Code Section 7050.5 requires the project to halt until the County Coroner has made the necessary findings as to the origin and disposition of the remains pursuant to Public Resources Code Section 5097.98. Compliance with these regulations would ensure the proposed project would not result in significant impacts due to disturbing human remains.

8. ENERGY. Would the proposal:

a. *Conflict with adopted energy conservation plans?* ()

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? The Arroyo Seco Master Plan Master EIR did not address the issue of energy in its analysis. However, since the project proposes no facilities requiring the use of energy and is consistent with current land use and zoning designations, the project would not conflict with an adopted energy conservation plan(s). As a result, no impacts are expected.

b. *Use non-renewable resources in a wasteful and inefficient manner?* ()

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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WHY? The Arroyo Seco Master Plan Master EIR did not analyze impacts related to the use of non-renewable resources in a wasteful manner. However, the proposed project will not, during its operation,

³ Ibid.

Not Within the Scope of the MEIR		Within the Scope of the MEIR		
Potentially Significant Impact	Significant Unless New Mitigation is Incorporated	Less than Significant with Incorporation of Mitigation from the MEIR	Less than Significant Impact	No Impact/No Additional Impact

create any demand for energy (including oil-based products or electricity) and thus will not require the development of new energy sources. Construction of the project will result in a short-term insignificant consumption of oil-based energy products. However, long-term operation will have no impact on energy resources.

The project includes landscaping enhancements of that portion of the connector trail that traverses the JPL parking lot, including the removal of a small amount of pavement with a possible relocation of the trail from the middle to the edge of the landscape strip. The new landscaping will consist of native plant species that will require little or no irrigation once established. The installation of a water fountain near the north connector at East Rim and Gabrielino Trail will result in additional water consumption for pedestrians and bicyclists. However, the water consumption will be minimal and therefore, impacts are considered less than significant.

9. GEOLOGY AND SOILS. Would the project:

- a. *Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:*
 - i. *Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42. ()*

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? According to the Arroyo Seco Master Plan Master EIR, the project site is not within any potential fault rupture zones. The closest mapped fault zone, the Raymond Hill Fault Zone, is located approximately 2.75 miles south of the project site. Therefore, the proposed project would not expose people or structures to potential substantial adverse effects caused by the rupture of a known fault. Therefore, the project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d).

- ii. *Strong seismic ground shaking? ()*

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? Impacts found to be potentially significant in the Arroyo Seco Master Plan Master EIR in the Hahamongna Watershed Park Master Plan Area, as they apply to this project, include areas of trail improvements where there would be the creation of steep slopes. The project includes the repair and rehabilitation of existing trails and drainage improvements to redirect some of the site's stormwater to prevent soil erosion along the trails. One component includes the grading and creation of a small retention basin at the base of the connector trail that provides a link to the trail entrance at Altadena Drive. While these improvements do not consist of creating new steep slopes, they must consider the potential earth-retaining properties that may be associated with the creation of the retention basin and various other improvements along the trails to control drainage and prevent trail erosion.

Table 3.5-4 of the Master EIR states that the technical compliance with existing building codes and industry design standards, including grading standards, related to slope stability (including the standards enforced by the City of Pasadena in the normal course of business) will reduce these impacts to less than significant

Not Within the Scope of the MEIR		Within the Scope of the MEIR		
Potentially Significant Impact	Significant Unless New Mitigation is Incorporated	Less than Significant with Incorporation of Mitigation from the MEIR	Less than Significant Impact	No Impact/No Additional Impact

levels. All other components of the Arroyo Seco Master Plan project were found to be less than significant, including access and egress, minor improvements to existing structures, surface parking areas, trail and pedestrian improvements, and habitat restoration. Therefore, the proposed project would not expose people or structures to potential substantial adverse effects caused by strong seismic shaking. Therefore, the project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d).

- iii. *Seismic-related ground failure, including liquefaction as delineated on the most recent Seismic Hazards Zones Map issued by the State Geologist for the area or based on other substantial evidence of known areas of liquefaction? ()*

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? The components of the project were found to be less than significant in the Arroyo Seco Master Plan Master EIR include trail and pedestrian improvements, and drainage improvements to improve stormwater runoff. Therefore, the proposed project would not expose people or structures to potential substantial adverse effects caused by seismic-related ground failure. Therefore, the project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d).

- iv. *Landslides as delineated on the most recent Seismic Hazards Zones Map issued by the State Geologist for the area or based on other substantial evidence of known areas of landslides? ()*

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? The Arroyo Seco Master Plan Master EIR did not identify the potential for landslides as a significant impact related to geological hazards. The proposed project would not expose people or structures to the hazards of landslides. Therefore, the project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d).

- b. *Result in substantial soil erosion or the loss of topsoil? ()*

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? The proposed retention basin would require some excavation of native topsoil. This soil would be reused to repair damage along the trails caused by erosion from stormwater runoff. Impacts related to soil erosion or the loss of topsoil, however were found to be less than significant as they relate to the proposed project in the Arroyo Seco Master Plan Master EIR. These activities include access and egress, minor improvements to existing structures, surface parking area expansion, trail and pedestrian improvements, and habitat restoration. Therefore, the project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d).

Not Within the Scope of the MEIR		Within the Scope of the MEIR		
Potentially Significant Impact	Significant Unless New Mitigation is Incorporated	Less than Significant with Incorporation of Mitigation from the MEIR	Less than Significant Impact	No Impact/No Additional Impact

c. *Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?* ()

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? The Arroyo Seco Master Plan Master EIR did not identify the presence of potentially significant impacts related to unstable soil as a result of landslides, lateral spreading, subsidence, liquefaction or collapse for the project area. The EIR states that if design, construction and maintenance of the listed project components (Table 3.5-4) follow the standards enforced by the City of Pasadena in the normal course of business, there would be no significant impacts. Said table identifies that in the project area, slope stability and erosion/sediment control require the necessary technical compliance in order to ensure no impacts related to geologic instability and risk occur. Therefore, the project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d).

d. *Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?* ()

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? See response 9(c). The Arroyo Seco Master Plan Master EIR did not identify the presence of potentially significant impacts related to unstable soil as a result of expansive soils located in the project area. The EIR states that if design, construction and maintenance of the listed project components (Table 3.5-4) follow the standards enforced by the City of Pasadena in the normal course of business, there would be no significant impacts. Said table identifies that in the project area, slope stability and erosion/sediment control require the necessary technical compliance in order to ensure no impacts related to geologic instability and risk occur. Therefore, the project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d).

e. *Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?*

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? The project proposes no uses that will generate wastewater. Therefore, soil suitability for septic tanks or alternative wastewater disposal systems is not applicable in this case, and the proposed project would have no associated impacts.

10. HAZARDS AND HAZARDOUS MATERIALS. Would the project:

a. *Create a significant hazard to the public or the environment through the routine transport, use or disposal of hazardous materials?* ()

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? The project does not involve the use or storage of hazardous substances other than the small amounts of pesticides, fertilizers and cleaning agents required for normal maintenance of landscaping. The

Not Within the Scope of the MEIR		Within the Scope of the MEIR		
Potentially Significant Impact	Significant Unless New Mitigation is Incorporated	Less than Significant with Incorporation of Mitigation from the MEIR	Less than Significant Impact	No Impact/No Additional Impact

project must adhere to applicable zoning and fire regulations regarding the use and storage of any hazardous substances. The Arroyo Seco Master Plan Master EIR found the aforementioned impacts to be not significant. Therefore, the project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d).

b. *Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?* (t)

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? The project does not involve hazardous materials. Therefore, there is no significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions, which could release hazardous material. The project will have no additional impact on the environment pursuant to Public Resource Code Section 21158 (d).

c. *Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?* (t)

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? The project does not involve hazardous emissions or the handling of hazardous materials, substance, or waste and is not within one-quarter mile of an existing or proposed school. Therefore, the proposed project would have no hazardous material related impacts to schools. The Arroyo Seco Master Plan Master EIR found these potential impacts to be not significant. Therefore, the project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d).

d. *Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?* ()

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? The project site is not located on the State of California Hazardous Waste and Substances Sites List of sites published by California Environmental Protection Agency (CAL/EPA). The site is not known or anticipated to have been contaminated with hazardous materials and no hazardous material storage facilities are known to exist onsite according to the Arroyo Seco Master Plan Master EIR. Therefore, the project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d).

e. *For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?* ()

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? The Arroyo Seco Master Plan Master EIR found impacts to airport land use plans to be not significant. The project site is not within an airport land use plan or within two miles of a public airport or

Not Within the Scope of the MEIR		Within the Scope of the MEIR		
Potentially Significant Impact	Significant Unless New Mitigation is Incorporated	Less than Significant with Incorporation of Mitigation from the MEIR	Less than Significant Impact	No Impact/No Additional Impact

public use airport. The nearest public use airport is the Bob Hope Airport in Burbank, which is located 9 miles northwest of the project site. Therefore, the project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d).

f. For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area? ()

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? The project site is not within the vicinity of a private airstrip as determined by the Arroyo Seco Master Plan Master EIR. Therefore, the proposed project would not result in a safety hazard for people residing or working in the vicinity of a private airstrip and would have no associated impacts. The project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d).

g. Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan? ()

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? Impacts related to the project's interference with an adopted emergency response or evacuation plan were found to be not significant in the Arroyo Seco Master Plan Master EIR. The construction and operation of the proposed project would not place any permanent or temporary physical barriers on any existing public streets. Therefore, the project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d).

h. Expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands? ()

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? The Arroyo Seco Master Plan Master EIR found impacts related to the exposure of people or structures to significant risk of loss, injury, or death involving wildland fires to be not significant. The project will cause no additional wildfire related impact.

11. HYDROLOGY AND WATER QUALITY. Would the project:

a. Violate any water quality standards or waste discharge requirements? ()

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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WHY? Water quality is regulated by both state and federal agencies under the authority of the Clean Water Act (CWA). Projects that have the potential to degrade water quality are subject to the regulations of those agencies. Construction activities involving soil disturbances such as excavation, demolition or stockpiling and grading activities could result in increased erosion and sedimentation to surface waters, and could produce contaminated stormwater runoff, a major contributor to the degradation of water quality.

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The project consists of minor alterations to an existing connector trail network, including drainage improvements, trail stabilization and landscaping improvements, new trail signage, etc. The drainage and erosion improvements consist of a new rock down drain, an extended storm drain, a cobble swale, a drain drop inlet, stormwater retention basin, and minor topographic changes to eliminate depressions and divert rainwater flows in a manner that will prevent erosion damage to the trails.. For example, an existing open drainpipe located along the west side of the Gabrielino Trail (which drains across a connector trail and into the JPL parking lot) will be undergrounded. In addition, the upper section of the Connector Trail (extending from Altadena Drive) will be improved with a drainage swale that would divert stormwater towards a proposed retention basin located north of the Behner Water Treatment Plant. Although these drainage improvements will redirect some of the stormwater runoff to a retention basin, it will not increase the amount nor will it alter the area's overall drainage. The proposed drainage improvements will improve the overall drainage in the area and prevent soil erosion damage to the connector trails.

The Arroyo Seco Master Plan Master EIR found activities related to the proposed project to be not significant. None of the proposed uses are point source generators of water pollutants, and thus, no quantifiable water quality standards apply to the project. As an urban development, the proposed project would add typical, urban, nonpoint-source pollutants to storm water runoff as a result of the proposed trail enhancements. These pollutants are controlled by the National Pollutant Discharge Elimination System (NPDES) (established through the Clean Water Act) and are consistent with the water quality impacts identified in the MEIR. Compliance with NPDES is mandated by State and federal statutes and regulations. To mitigate any potential impacts associated with stormwater runoff during any grading activities, the City would be required to implement Best Management Practices (BMPs) to control erosion associated with trail improvements, and permanent features to treat stormwater runoff. (See Section f). Therefore, the project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d).

- b. *Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)? ()*

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? The project would not install any groundwater wells, and would not otherwise directly withdraw any groundwater. Therefore, no impacts are expected.

- c. *Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner, which would result in substantial erosion or siltation on-or off-site? ()*

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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WHY? The project does not involve any alteration of a stream course and only involves minor localized changes in drainage patterns and diversion into a proposed retention basin. The Hahamongna Watershed Park Master Plan (HWP) states the stormwater runoff has become an issue for the area, as runoff from the hillside erodes soils along the trails. The project proposes a retention basin along the East Rim Trail just north of the Behner Water Treatment Facility. This basin will be approximately 20-30 feet in diameter, 2-3 feet in depth, and would collect runoff that currently flows down the upper segment of the EN-JPL trail. Also, improvements to drainage would redirect runoff from the upper portion of the Gabrielino Trails. The current

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f. *Otherwise substantially degrade water quality?* ()

<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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WHY? As discussed above, the proposed development will not be a point-source generator of water pollutants. The only long-term water pollutants expected to be generated onsite are typical urban stormwater pollutants. NPDES requirements ensure these stormwater pollutants would not substantially degrade water quality.

The project, however, does have the potential to generate short-term water pollutants during construction, including sediment, trash, construction materials, and equipment fluids. The Arroyo Seco Master Plan Master EIR requires the implementation of Measure Hydro-1 which reduces any potential impacts during construction. In addition, the County-wide MS4 permit (NPDES stormwater permit) requires construction sites to implement best management programs (BMPs) to reduce the potential for construction-induced water pollutant impacts. These BMPs include methods to prevent contaminated construction site stormwater from entering the drainage system and preventing construction-induced contaminants from entering the drainage system. The MS4 identifies the following minimum requirements for construction sites in Los Angeles County:

1. Sediments generated on the project site shall be retained using adequate Treatment Control or Structural BMPs;
2. Construction-related materials, wastes, spills or residues shall be retained at the project site to avoid discharge to streets, drainage facilities, receiving waters, or adjacent properties by wind or runoff;
3. Non-storm water runoff from equipment and vehicle washing and any other activity shall be contained at the project site; and
4. Erosion from slopes and channels shall be controlled by implementing an effective combination of BMPs (as approved in Regional Board Resolution No. 99-03), such as the limiting of grading scheduled during the wet season; inspecting graded areas during rain events; planting and maintenance of vegetation on slopes; and covering erosion susceptible slopes.

Through compliance with NPDES permit requirements and with the implementation of Measure Hydro-1 (as reiterated below), impacts are expected to be less than significant. Therefore, the project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d).

Applicable Mitigation Measures from the Arroyo Seco Master Plan Master EIR:

- Measure Hydro –1: A construction storm water pollution prevention plan (SWPPP) shall be prepared prior to construction as part of the final project plan. This plan shall be implemented during and after construction. Standard Urban Stormwater Mitigation Plan (SUSMP) requirements shall be followed and included in project Best Management Practices (BMPs), both for structural and non-structural measures. Parking lots to be constructed within the floodplain may use pervious surfaces to increase infiltration; and provide a runoff filtration system. Wetland ponds at the flow outlets or vegetative swales bordering the parking areas may be integrated as part of parking lot design to achieve the water quality improvement objectives. On-site retention systems may be constructed at the low flow concentration locations or any on-site retention of trash, oil/grease, and other waste shall be removed prior to major storm events to avoid inundation and conveyance to the

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downstream channel. Frequent site maintenance shall be conducted to ensure that project BMPs are functioning as intended.

g. *Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or dam inundation area as shown in the City of Pasadena adopted Safety Element of the General Plan or other flood or inundation delineation map? ()*

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? These potential impacts were found to be not significant in the Arroyo Seco Master Plan Master EIR. The project proposes no housing. Therefore, the project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d).

h. *Place within a 100-year flood hazard area structures, which would impede or redirect flood flows? ()*

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? The Arroyo Seco Master Plan Master EIR found these potential effects to be not significant. No portions of the City of Pasadena are within a 100-year floodplain identified by the Federal Emergency Management Agency (FEMA). As shown on FEMA map Community Number 065050, the entire City is in Zone D, for which no floodplain management regulations are required. Therefore, the proposed project would not place structures within the flow of the 100-year flood, and the project would have no related impacts. Therefore, the project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d).

i. *Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam? ()*

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? The Arroyo Seco Master Plan Master EIR found potential risks of loss injury, or death involving flooding or dam failure to be not significant. No portions of the City of Pasadena are within a 100-year floodplain identified by the Federal Emergency Management Agency (FEMA). As shown on FEMA map Community Number 065050, the entire City is in Zone D, for which no floodplain management regulations are required. In addition the project site is not within a dam inundation area identified in the Safety Element of the City's General Plan. Therefore, the project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d).

j. *Inundation by seiche, tsunami, or mudflow? ()*

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? The potential for inundation by seiche, tsunami, or mudflow were found to be not significant in the Arroyo Seco Master Plan Master EIR. The City of Pasadena is not located near enough to any inland bodies of water or the Pacific Ocean to be inundated by either a seiche or tsunami. For mudflow see responses to 9. Geology and Soils a. iii and iv regarding seismic hazards such as liquefaction and

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landslides. Therefore, the project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d).

12. LAND USE AND PLANNING. Would the project:

a. *Physically divide an existing community?* ()

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? The Initial Study prepared for the Arroyo Seco Master Plan found that the proposed project would not divide or disrupt the physical arrangement of an established community; neither would it produce a significant impact on applicable land use plans or policies adopted by state and federal agencies. Implementation of the proposed project would not result in impacts on any applicable habitat conservation plans or natural community conservation plans because no such plans exist. Therefore, improvements within the proposed project area would not be expected to constitute a substantial alteration of the present or planned land use for the area. No significant impacts to land use and planning are anticipated. Therefore, the project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d).

b. *Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?* ()

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? See response 12(a).

c. *Conflict with any applicable habitat conservation plan (HCP) or natural community conservation plan (NCCP)?* ()

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? See response 12(a).

13. MINERAL RESOURCES. Would the project:

a. *Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?* ()

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? The Arroyo Seco Master Plan Master EIR found that the only potential area of the Hahamongna Watershed Park that potentially could contain valuable mineral resources is located in the Devil's Gate Reservoir area. Impacts to mineral resources in other areas of the Hahamongna Watershed Park were found to be not significant. Since the project area is not located in the area where potential mineral

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resources were identified, impacts are thus not significant. Therefore, the project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d).

- b. *Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan? ()*

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? See response 13(a).

14. NOISE. Will the project result in:

- a. *Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies? ()*

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? The Arroyo Seco Master Plan Master EIR found that the project would not create any significant noise impacts either during the construction/rehabilitation thereof, or in the long-term operation of the project. The proposed project would improve drainage and help prevent erosion on the affected connector trails. No noise beyond that considered in the MEIR would be generated by the project. Therefore, the project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d).

- b. *Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels? ()*

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? See response 14(a). No vibrations are expected to be generated by the project.

- c. *A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project? ()*

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? See response to 14(a).

- d. *A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project? ()*

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? See response 14(a).

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e. For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels? ()

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? See responses 14(a) and 10(e).

f. For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels? ()

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? See responses 14(a) and 10(f).

15. POPULATION AND HOUSING. Would the project:

a. Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)? ()

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? The Initial Study prepared for the Arroyo Seco Master Plan found no significant impacts related to population and housing as a result of the proposed project. No new residential homes are planned as a result of the proposed project. The proposed project site is contained within existing designated open space boundaries, and implementation of the proposed project will not displace housing. Improvements within the proposed project area will not affect existing housing or create demand for additional housing. Therefore, the project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d).

b. Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere? ()

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? See response 15(a).

c. Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere? ()

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? No See response 15(a).

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16. **PUBLIC SERVICES.** Will the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:

a. *Fire Protection?* ()

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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WHY? The Arroyo Seco Master Plan Master EIR identifies the potential significant impacts on fire protection services due to an increase in the number of Hahamongna Watershed Park attendees. However, it refers specifically to amenities provided for in the Master Plan that are not a part of this project. These include: soccer fields, multi-use fields, two lakes, expanded equestrian facilities, restroom facilities, and parking areas. Since the project primarily involves trail drainage improvements to existing trails, the project would not be expected to increase park attendees such that fire protection services would be impacted. Therefore, impacts are expected to be less than significant.

b. *Libraries?* ()

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? The project does not involve any development that would increase the number of users to libraries and therefore is expected to have no impact.

c. *Parks?* ()

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? The Arroyo Seco Master Plan Master EIR found the projects impacts on parks to be not significant. The proposed project would improve existing recreational (trail) resources. Therefore, the project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d).

d. *Police Protection?* ()

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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WHY? The Arroyo Seco Master Plan Master EIR identifies the potential significant impacts on police protection services due to an increase in the number of Hahamongna Watershed Park attendees. However, it refers specifically to amenities provided for in the Master Plan that are not a part of this project. These include: soccer fields, multi-use fields, two lakes, expanded equestrian facilities, restroom facilities, and parking areas. The project primarily involves enhancements to the on-site drainage, and minor landscaping and signage improvements for existing trails. None of these types of improvements will encourage an increase in pedestrians and bicyclists usage of the trails, nor will the project result in an increase in park attendees such that police protection services would be impacted. Therefore, impacts are expected to be less than significant.

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e. *Schools?* ()

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? The Arroyo Seco Master Plan Master EIR found the projects impacts on schools to be less than significant. The project would not increase school enrollment. Therefore, the project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d).

f. *Other public facilities?* ()

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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WHY? The Arroyo Seco Master Plan Master EIR determined that project's development may result in additional maintenance of public/park facilities. However, these findings are related to the development as set forth in the Master Plan for all of the proposed improvements to the Hahamongna Watershed Park area. The improvements proposed in this project are minor and consist mostly of trail and fence rehabilitation/replacement, stormwater drainage improvements, improvements to the trail area that crosses the JPL parking area and additional signage. The aforementioned improvements would have a negligible effect on the need for additional maintenance for the City's Department of Public Works/Parks and Natural Resources Division and are therefore expected to be less than significant.

17. RECREATION.

a. *Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?* ()

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? The project's effects on parks and recreational facilities was found to be not significant in the Arroyo Seco Master Plan Master EIR as the project would actually allow continued use of an existing connector trail network that has, in the past, been adversely affected by poor drainage in the area. Therefore, the project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d).

b. *Does the project include recreational facilities or require the construction or expansion of recreational facilities, which might have an adverse physical effect on the environment?* ()

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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WHY? The project consists of enhancements and necessary maintenance to existing recreational facilities. The impacts thereof are addressed throughout this document. No expansion of recreational facilities would occur.

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18. TRANSPORTATION/TRAFFIC. Would the project:

a. *Cause an increase in traffic that is substantial in relation to the existing traffic load and capacity of the street system (i.e., result in a substantial increase in either the number of vehicle trips, the volume to capacity ratio on roads, or congestion at intersections)? ()*

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? The closest intersection to the project site is Ventura Street and Windsor Avenue. Altadena Drive is adjacent to the proposed project, where the trail connects the western terminus of Altadena Drive with the Gabrieliño Trail and, beyond, the eastern JPL parking lot. The Arroyo Seco Master Plan Master EIR identified and analyzed 26 area intersections and 13 roadway segments. Of the 26 intersections, 9 are located within the Upper Arroyo Seco Area. All of the roadway segments and intersections were measured and modeled for weekday traffic and 2 separate weekend special events scenarios. None of the 13 roadway segments studied were found to be significantly impacted and therefore require no mitigation. Of the 26 intersections analyzed, only 3 required mitigation and only in the Weekend Special Event No. 1 scenario. The aforementioned intersections are Linda Vista/Highland, Linda Vista/Oak Grove, and N. Arroyo/ I-210 WB On/Off Ramps. The EIR found these impacts to be related to activities within the Central Arroyo Seco Area.

The improvements proposed and analyzed under this document relate to trail and drainage enhancements for pedestrians and bicyclists. Therefore, no traffic impacts are expected as a result of the proposed project. Therefore, the project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d).

b. *Exceed, either individually or cumulatively, a level of service standard established by the county congestion management agency for designated roads or highways? ()*

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? The Arroyo Seco Master Plan Master EIR analyzed impacts of the project on the Los Angeles County Metropolitan Transportation Authority (MTA) Congestion Management Program (CMP). Impacts were found to be not significant. Therefore, the project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d).

c. *Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks? ()*

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? The project site is not within an airport land use plan or within two miles of a public airport or public use airport. Consequently, the proposed project would not affect any airport facilities and would not cause a change in the directional patterns of aircraft. Therefore, the proposed project would have no impact to air traffic patterns.

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d. Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)? ()

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? The project does not propose any vehicular circulation improvements or any incompatible uses. Therefore, no impacts are expected.

e. Result in inadequate emergency access? ()

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? The Arroyo Seco Master Plan Master EIR found there to be no impacts related to emergency access as a result of the proposed project. The project consists of maintenance/improvements to existing trails and proposes no changes to emergency access. Therefore, the project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d).

f. Result in inadequate parking capacity? ()

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? The Arroyo Seco Master Plan Master EIR found there to be no impacts to parking as a result of the project. The project will improve the landscaping strip within the JPL employee parking facility. Although some asphalt will be removed adjacent to this landscaping strip, parking will not be removed or increased due to the project. There are no proposed changes to the use of the parking lot as a result of this project. Therefore, the project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d).

g. Conflict with adopted policies, plans, or programs supporting alternative transportation (e.g. bus turnouts, bicycle racks)? ()

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? The Arroyo Seco Master Plan Master EIR found there to be no impacts to policies, plans, or programs supporting alternative transportation. The proposed project consists of maintenance/improvements to existing trails and will not affect alternative transportation in the area. The trails will allow for the continued bicycle and pedestrian use of the trails. Therefore, the project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d).

Not Within the Scope of the MEIR		Within the Scope of the MEIR		
Potentially Significant Impact	Significant Unless New Mitigation is Incorporated	Less than Significant with Incorporation of Mitigation from the MEIR	Less than Significant Impact	No Impact/No Additional Impact

19. UTILITIES AND SERVICE SYSTEMS. Would the project:

- a. *Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board? ()*

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? The Arroyo Seco Master Plan Master EIR found impacts related to exceeding wastewater treatments to be not significant. The project would not change wastewater generation in any way. Therefore, the project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d).

- b. *Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects? ()*

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? The Arroyo Seco Master Plan Master EIR found impacts related to necessitating the construction new water or wastewater facilities or the expansion of existing ones as a result of the project to be not significant. The project would not increase wastewater generation and would not demand additional water, other than a minor amount for native landscaping, which will require little or no irrigation once established and the placement of a drinking fountain at the base of the eastside connector trail. Therefore, the project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d).

- c. *Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects? ()*

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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WHY? The Arroyo Seco Master Plan Master EIR identified the potential for significant impacts related to the improvement of existing storm drains necessitated by the improvements set forth in the Master Plan. However, this is in regard to the entire Hahamongna Watershed Park area. This specific project proposes improvements that will significantly improve and direct stormwater runoff in a manner that will prevent soil erosion on the connector trail surfaces. The project also includes habitat restoration, trail and fence refurbishment, repair of storm drain and diversion under the trails, installation of swales along the Gabrielino Trail, creation of a stormwater retention basin, and signage. These proposed improvements will not increase the amount of drainage the network can accommodate. The project's drainage improvements are incremental in nature, are intended to correct current drainage deficiencies and prevent damage to existing trails. Therefore, impacts will be less than significant.

- d. *Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed? ()*

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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WHY? The adequacy of water supply is a potential problem for all new development since the Southern California region has been known to experience periods of drought and needs a long-term reliable water

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supply. This project will result in a negligible increase in water consumption. The project proposes revegetation of the JPL parking lot landscaping with California native trees and shrubs. These plantings require little or no irrigation once established. In addition, a drinking fountain is proposed at the base of the eastside connector trail that will be equipped with an automatic shut-off valve. Because the revegetated landscaping in the JPL parking lot area will be drought tolerant and the drinking fountain will be used infrequently, impacts will be less than significant.

- e. *Result in a determination by the wastewater treatment provider, which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments? ()*

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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WHY? The Arroyo Seco Master Plan Master EIR found the project's impacts on the capacity of wastewater treatment facilities to be not significant. The project does not involve ant development that would produce significant amounts of wastewater. Therefore, the project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d).

- f. *Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs? ()*

<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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WHY? The Arroyo Seco Master Plan Master EIR found impacts related to the project to be potentially significant and set forth mitigation measures which reduce said impacts to less than significant levels. However, the aforementioned analysis and determination was based on the buildout of the entire Hahamongna Watershed Park area. The proposed project likely will not increase the amount of solid waste generated in the Arroyo Seco. However, the implementation of Measure Utilities and Service Systems-2 and 3 will ensure that any potential impacts are reduced to less than significant levels. Therefore, the project will have no additional impact on the environment pursuant to Public Resources Code Section 21158(d).

Applicable Mitigation Measures from the Arroyo Seco Master Plan Master EIR:

- 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 identify to the City of Pasadena Department of Public Works and Transportation and implement programs for minimizing solid waste generated during construction. These programs will include, at a minimum, recycling of asphalt and concrete paving materials, balance of graded soil on site to the maximum extent feasible, and site identification for any off-site cut or fill requirements including potentially significant impacts and mitigation measures.
- 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 proximate to each recycling receptacle.

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g. Comply with federal, state, and local statutes and regulations related to solid waste? ()

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? See response 19(f). The project would not conflict with any statutes or regulations related to solid waste.

20. EARLEIR ANALYSIS.

Earlier analysis may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration. See CEQA Guidelines Sections 15063(c)(3)(D) and 15152 *et seq.*

a) The Arroyo Seco Master Plan Master EIR can be used for analysis, or “tiering” to determine the project’s environmental effects:

This document is available for review at the Permit Center, 175 North Garfield Avenue between the hours of 8:00 a.m. and 5:00 p.m. on Monday through Thursday and from 8:00-12:00 p.m. every Friday and the City Clerk’s Office Monday through Thursday from 7:30 a.m. to 5:30 p.m. and every other Friday during the same hours.

b) Impacts Adequately Addressed. The following impacts were adequately addressed in the Arroyo Seco Master Plan Master EIR: Aesthetics 3a,b,c, and d, Agricultural Resources 4a, b, and c, Air Quality 5a,b,c,d, and e, Biological Resources 6c, and f, Cultural Resources 7a,b,c, and d, Geology and Soils 9a(i)(ii)(iii)(iv),b,c,d, and e, Hazards and Hazardous Materials 10a,c,d,e,f,g, and h, Hydrology 11a,c,d,e,g,h,i, and j, Land Use and Planning 12a,b, and c, Mineral Resources 13a and b, Noise 14a,b,c,d,e, and f, Population and Housing 15a,b, and c, Public Services 16a,c, and e, Recreation 17a, Transportation/Traffic 18a,b,e,f, and g, Utilities and Service Systems 19a,b,e,f, and g.

c) Mitigation Measures. Where necessary and/or adequate, Mitigation Measures proposed from the Arroyo Seco Master Plan Master EIR were used. Such mitigation measures are specified in the relevant portions of this document and consist of:

1. **Measure Aesthetics-1:** Mitigates short-term visual impacts related to construction of the proposed project.
2. **Measure Aesthetics-2:** Mitigates short-term visual impacts related to construction of the proposed project.
3. **Measure Air-1 -11:** Reduces the impacts of the creation of fugitive dust (PM₁₀) and NO_x during construction of the project.
4. **Measure Cultural-3:** Mitigates disturbance of cultural resources during grading activities.
5. **Measure Hydro-1:** Mitigates construction impacts to water quality.

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6. **Measure Utilities and Service Systems-2 -3:** Mitigates solid waste generation.

21. MANDATORY FINDINGS OF SIGNIFICANCE.

- a. *Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory? ()*

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? As discussed in Sections 3 and 5 of this document, the proposed project would not have substantial impacts to Aesthetics or Air Quality. Also, as discussed in Section 6 and 11 of this document, the proposed project would not have substantial impacts to special status species, stream habitat, and wildlife dispersal and migration. Furthermore, the proposed project would not affect the local, regional, or national populations or ranges of any plant or animal species and would not threaten any plant communities. Similarly, as discussed in Section 7 of this document, the proposed project would not have substantial impacts to historical, archaeological, or paleontological resources, and thus, would not eliminate any important examples of California history or prehistory. As discussed in Sections 11, 13 and 14 of this document, the proposed project would not have substantial impacts to water quality, Mineral Resources or Noise.

As discussed in the document, the project will be required to comply with the following mitigation measures from the adopted Arroyo Seco Master Plan EIR:

Measure Aesthetic – 1: The City of Pasadena shall require construction contractors to strictly control the staging of construction equipment and the cleanliness of construction equipment stored or driven beyond the limits of the construction work area as a means of minimizing temporal degradation of the visual character of surrounding areas and the associated impact to aesthetics. Prior to completion of final plans and specifications, the City of Pasadena shall review the plans and specifications to ensure that all construction vehicles and equipment shall be parked in designated staging areas when not in use. Vehicles shall be kept clean and free of mud and dust before leaving the project site (see Measure Air-5). Completion of this measure shall be monitored and enforced by the City of Pasadena Department of Public Works.

Measure Aesthetic – 2: The City of Pasadena shall require construction contractors to provide temporary screening from the present public view site, around construction work areas, for all improvements that grading and temporary closures for trails during construction and enhancement, as a means of minimizing the temporal effects to the visual character of the surrounding area and the associated impacts to aesthetics.

Measure Air –1: The City of Pasadena shall require wetting of soils for all grading activities undertaken to implement the specified project components that are expected to affect areas of greater than 1 acre in size as a means of reducing PM10 emissions to the maximum extent practicable. Prior to advertising for construction bids for the Upper Arroyo Seco improvements, the Central Arroyo Seco improvements, or the Lower Arroyo Seco improvements, the City of Pasadena Department of Public Works shall ensure that the plans and specifications include the requirement

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for the construction contractor to ensure that soils are moistened prior to grading and soil moisture content is maintained at a minimum of 12 percent for all grading activities. The construction contractor shall demonstrate compliance with this measure through the submittal of monthly monitoring reports to the City of Pasadena Department of Public Works.

Measure Air –2: The City of Pasadena shall require wetting of soils for all grading activities undertaken to implement the specified project components that are expected to affect areas of greater than 1 acre in size as a means of reducing PM10 emissions to the maximum extent practicable. Prior to advertising for construction bids for the Upper Arroyo Seco improvements, the Central Arroyo Seco improvements, or the Lower Arroyo Seco improvements, the City of Pasadena Department of Public Works shall ensure that the plans and specifications include the requirement for the construction contractor to ensure that surfaces undergoing active grading and all other exposed surfaces be watered at least twice a day under calm conditions. Surfaces shall be watered as often as needed on days that are windy (when wind speed is less than 25 miles per hour) or during very dry weather to maintain a surface crust and prevent the release of visible emissions from the construction site. The construction contractor shall demonstrate compliance with this measure through the submittal of monthly monitoring reports to the City of Pasadena Department of Public Works.

Measure Air –3: The City of Pasadena shall require soil treatment to stabilize soils for all exposed cuts or all slopes as a means for reducing PM10 to the maximum amount practicable. Prior to advertising for construction bids for the Upper Arroyo Seco improvements, the Central Arroyo Seco improvements, or the Lower Arroyo Seco improvements, the City of Pasadena Department of Public Works shall ensure that the plans and specifications include the requirement for the construction contractor to ensure that any area that would be exposed for extended periods would be treated with a non-toxic soil conditioner to stabilize soil or would be temporarily planted with vegetation.

Measure Air –4: The City of Pasadena shall require soil treatment to stabilize soils for all exposed cuts or all slopes as a means for reducing PM10 to the maximum amount practicable. Prior to advertising for construction bids for the Upper Arroyo Seco improvements, the Central Arroyo Seco improvements, or the Lower Arroyo Seco improvements, the City of Pasadena Department of Public Works shall ensure that the plans and specifications include the requirement for the construction contractor to ensure that non-toxic chemical stabilizers are applied within five working days of ceasing grading or water or dust suppressants are applied in sufficient quantity to maintain a stabilized surface. The construction contractor shall demonstrate compliance with this measure through the submittal of monthly monitoring reports to the City of Pasadena Department of Public Works.

- ☒ Measure Air –5: The City of Pasadena shall require construction contractors to wash equipment that would travel on public roads prior to leaving construction sites where equipment would be exposed to mud as a means of reducing PM10 emissions to the maximum extent possible. Prior to advertising for construction bids for the Upper Arroyo Seco improvements, the Central Arroyo Seco improvements, or the Lower Arroyo Seco improvements, the City of Pasadena Department of Public Works shall ensure that the plans and specifications include the requirement for the construction contractor to ensure that mud covered tires and undercarriages of trucks are washed prior to leaving construction sites. The construction contractor shall demonstrate compliance with this measure through the submittal of monthly monitoring reports to the City of Pasadena Department of Public Works.

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Measure Air –6: The City of Pasadena shall require construction contractors to maintain adjacent public roads free of mud and debris from the construction site on a daily basis, as a means of reducing PM10 emissions to the maximum extent practicable. Prior to advertising for construction bids for the Upper Arroyo Seco improvements, the Central Arroyo Seco improvements, or the Lower Arroyo Seco improvements, the City of Pasadena Department of Public Works shall ensure that the plans and specifications include the requirement for the construction contractor to provide for street sweeping, as needed, on adjacent roadways to remove dirt dropped by construction vehicles or mud that would otherwise be carried off by trucks departing project sites. The construction contractor shall demonstrate compliance with this measure through the submittal of monthly monitoring reports to the City of Pasadena Department of Public Works.

Measure Air –7: The City of Pasadena shall require that construction contractors cover all trucks hauling dirt on public roads as a means of reducing PM10 emissions to the maximum extent practicable. Prior to advertising for construction bids for the Upper Arroyo Seco improvements, the Central Arroyo Seco improvements, or the Lower Arroyo Seco improvements, the City of Pasadena Department of Public Works shall ensure that the plans and specifications include the requirement for the construction contractor to ensure that loads of dirt are securely covered with a tight fitting tarp on any truck leaving or entering the construction sites to bring fill dirt to the site or to dispose of excavated soil. The construction contractor shall demonstrate compliance with this measure through the submittal of monthly monitoring reports to the City of Pasadena Department of Public Works.

Measure Air –8: The City of Pasadena shall require that grading activities cease during periods when winds exceed 25 miles per hour, as a means of reducing PM10 emissions to the maximum extent practicable. Prior to advertising for construction bids for the Upper Arroyo Seco improvements, the Central Arroyo Seco improvements, or the Lower Arroyo Seco improvements, the City of Pasadena Department of Public Works shall ensure that the plans and specifications include the requirement for the construction contractor to ensure that grading is ceased during periods when winds exceed 25 miles per hour. The construction contractor shall demonstrate compliance with this measure through the submittal of monthly monitoring reports to the City of Pasadena Department of Public Works.

Measure Air –9: The City of Pasadena shall require that the construction contractor ensure that all cut and fill slopes are permanently protected from erosion as a means of reducing PM10 emissions to the maximum extent practicable. Prior to advertising for construction bids for the Upper Arroyo Seco improvements, the Central Arroyo Seco improvements, or the Lower Arroyo Seco improvements, the City of Pasadena Department of Public Works shall ensure that the plans and specifications include the requirement for the construction contractor to provide for permanent sealing of all graded areas at the earliest practicable time after soil disturbance. The construction contractor shall demonstrate compliance with this measure through the submittal of monthly monitoring reports to the City of Pasadena Department of Public Works.

Measure Air –10: The City of Pasadena shall require the construction contractor to ensure that all construction equipment is maintained in peak working order, as a means of reducing NOx emissions to the maximum extent practicable. Prior to advertising for construction bids for the Upper Arroyo Seco improvements, the Central Arroyo Seco improvements, or the Lower Arroyo Seco improvements, the City of Pasadena Department of Public Works shall ensure that the plans and specifications include the requirement for the construction contractor to ensure that construction equipment is maintained in peak operating condition so as to reduce operation emissions. Specifications shall require the construction contractor to certify monthly to the City of Pasadena

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Department of Public Works that construction equipment is being maintained in peak operating condition.

Measure Air –11: The City of Pasadena shall require of the construction contractor that all construction equipment not expected to be used for a period in excess of 15 minutes be turned off as a means of reducing NOx emissions to the maximum extent practicable. Prior to advertising for construction bids for the Upper Arroyo Seco improvements, the Central Arroyo Seco improvements, or the Lower Arroyo Seco improvements, the City of Pasadena Department of Public Works shall ensure that the plans and specifications require the construction contractor to shut off engines when not expected to be in use in excess of 15 minutes.

Measure Cultural-3: The City of Pasadena shall minimize potential impacts to currently unknown cultural resources in native soils by requiring an archeologist to be present during grading in native soils. Grading in native soils is anticipated for specified components for each element of the Arroyo Seco Master Plan:

Hahamongna Watershed Park

- 16 surface parking areas
- 4 public restrooms
- Johnson Field expansion
- New trail segments

Central Arroyo Seco

- New pedestrian pathways

Lower Arroyo Seco

- 2 surface parking areas
- 2 public restrooms
- New trail segments
- New pedestrian pathways
- Placement of boulders of sufficient size to compress subsurface deposits

Prior to the initiation of grading activities in native soils, the City of Pasadena Department of Public Works shall ensure that the project specifications require a qualified archeologist to be present during grading activities within native soils. The archeologist shall be authorized to halt construction, if necessary, in the immediate area where buried cultural remains are encountered. Prior to the resumption of grading activities in the immediate vicinity of the cultural remains, the City of Pasadena Department of Public Works shall provide the archeologist with the necessary resources

New Biological Resource Mitigation Measures are proposed:

MM Bio 1: In order to reduce the impacts to the identified potentially-occurring special status species and their habitat, construction and rehabilitation of trails within the project area shall be conducted using non-invasive trail construction and improvement techniques. These techniques shall seek to limit trimming and/or removal as well as ground disturbance, to the greatest extent possible, of native vegetation species. The City of Pasadena Department of Public Works/ Parks and Natural Resources Division shall review final trail plans and monitor their construction.

MM Bio 2: To preserve the potential occurrence of Nevin’s Barberry, Plummer’s Mariposa Lily, Parry’s Spineflower, and Mesa Horkelia, a botanical survey shall be conducted in their spring

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c. Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly? ()

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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WHY? As discussed in Sections 5, 10, 11, 14, and 18 of this document, the proposed project would not expose persons to the hazards of toxic air emissions, chemical or explosive materials, flooding, noise, or transportation hazards. Section 9 of this document explains that although residents of the proposed would be exposed to typical southern California earthquake hazards, modern engineering practices would ensure that geologic and seismic conditions would not directly cause substantial adverse effects on humans. In addition, as discussed in Sections 3 Aesthetics, 12 Land Use and Planning, 15 Population and Housing, 16 Public Services, 17 Recreation, 18 Transportation/Traffic and 19 Utilities and Service Systems the project would not indirectly cause substantial adverse effects on humans. As discussed in the document, the project will be required to comply with the following mitigation measures from the adopted Arroyo Seco Master Plan EIR for Utilities and Service Systems. Therefore, the proposed project would not have a Mandatory Finding of Significance due to environmental effects that could cause substantial adverse effects on humans.

- 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 identify to the City of Pasadena Department of Public Works and Transportation and implement programs for minimizing solid waste generated during construction. These programs will include, at a minimum, recycling of asphalt and concrete paving materials, balance of graded soil on site to the maximum extent feasible, and site identification for any off-site cut or fill requirements including potentially significant impacts and mitigation measures.
- 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 proximate to each recycling receptacle.

INITIAL STUDY REFERENCE DOCUMENTS

- | # | Document |
|----|--|
| 1 | Eastside Neighborhood and JPL (Altadena) Connector Trail, Natural Environmental Study, Minimal Impacts, AMEC Earth and Environmental, March 2009. |
| 2 | Sunset Overlook Trailhead Area Master EIR Initial Study Environmental Checklist, December 2007. |
| 3 | Phase I (CEQA) and Class III (NEPA) Cultural Resources Investigation for the Eastside Neighborhood and JPL Connector Trail Improvements Project Area in the Hahamonga Watershed Park, City of Pasadena, Los Angeles County, California, McKENNA et al, April 2009. |
| 4 | CEQA Air Quality Handbook, South Coast Air Quality Management District, revised 1993. |
| 5 | Arroyo Seco Master Plan Master Environmental Impact Report. |
| 6 | Arroyo Seco Master Plan. |
| 7 | Final Environmental Impact Report (FEIR) Land Use and Mobility Elements of the General Plan, Zoning Code Revisions, and Central District Specific Plan, City of Pasadena, certified 2004 |
| 8 | Pasadena Municipal Code, as amended |
| 9 | Storm Water and Urban Runoff Control Regulations Pasadena Municipal Code Chapter 8.70 Ordinance #6837. |
| 10 | Zoning Code, Chapter 17 of the Pasadena Municipal Code. |

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