

Mitigation Monitoring and Reporting Program

Garfield Replacement Well Project

State Clearinghouse No. 2021060461

Prepared for | City of Pasadena
Water and Power Department
150 South Los Robles Avenue, #200
Pasadena, California 91101

Prepared by | Psomas
5 Hutton Centre Drive, Suite 300
Santa Ana, California 92707

July 2021

Mitigation Monitoring and Reporting Program

Garfield Replacement Well Project

State Clearinghouse No. 2021060461

July 2021

**Lead Agency:
City of Pasadena
Water and Power Department
150 South Los Robles Avenue, #200
Pasadena, California 91101**

**Prepared by:
Psomas
5 Hutton Centre Drive, Suite 300
Santa Ana, California 92707**

TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
1. Introduction	1
2. Mitigation Monitoring Procedures.....	1
3. Project Location	1
4. Project Description Summary.....	1

TABLES

<u>Table</u>	<u>Page</u>
1 Mitigation Monitoring and Reporting Program.....	2

1. INTRODUCTION

In accordance with the requirements of Section 21081.6 of the *California Public Resources Code*, and as part of its certification of the adequacy of the Final Mitigated Negative Declaration (Final MND) for the Garfield Replacement Well Project (Project), Pasadena City Council (Council) of the City of Pasadena (City) adopts the following Mitigation Monitoring and Reporting Program (MMRP). The Council adopts this MMRP in its capacity as the Lead Agency for the Final MND in accordance with the provisions of the California Environmental Quality Act (CEQA) (*California Public Resources Code* Section 21000 et seq.), the State CEQA Guidelines (*California Code of Regulations*, Title 14, Section 15000 et seq.), and the City of Pasadena Monitoring Requirements.

2. MITIGATION MONITORING PROCEDURES

The MMRP for the Project, presented in Table 1, below, consists of Mitigation Measures (MMs) identified in the IS/MND. The MMs reflect any clarifications resulting from comments received during the public review period, that are required to reduce or avoid significant environmental effects associated with Project implementation. The MMs for the Project are listed in the first column in Table 1, with the timeframe for implementation in the second column, the agency or party with primary responsibility for implementation in the third column, and the agency or party with responsibility for monitoring compliance in the last column.

The City of Pasadena Water and Power Department (PWP) will confirm that all MMs are included in the Contractor Specifications and bid documents, as appropriate, and verified as part of MMRP implementation, consistent with Section 15097 of the State CEQA Guidelines.

3. PROJECT LOCATION

The Project site is located in the City at 586 North Garfield Avenue. The existing Garfield Well is located on the western side of Villa Parke, approximately 575 feet north and 230 feet east of the intersection of Garfield Avenue and East Villa Street. The proposed Garfield Replacement Well would be located approximately 165 feet due east of Garfield Avenue and approximately 100 feet northwest of the existing Garfield Well. The Project site can be accessed via State Route 134 by exiting Fair Oaks Avenue and traveling northward for approximately 0.2 mile to turn right on East Villa Street and continuing eastward for approximately 0.37 mile. North of the intersection of East Villa Street and Garfield Avenue, the Project site is accessed from an access road to Villa Parke from Garfield Avenue.

4. PROJECT DESCRIPTION SUMMARY

The proposed Project would drill and construct a replacement potable water supply well in the City of Pasadena, to maintain source capacity. The existing potable well (existing Garfield Well) has reached the end of its useful service life and has been removed from service. The replacement well would be capable of producing 1,500 gallons per minute (gpm) of water, which is comparable to the previous operational capacity of the existing Garfield Well, which produced an average of 1,417 gpm of water before decommissioning. The Garfield Replacement Well would be located on a 2-foot-tall concrete block (4 feet by 4 feet), approximately 100 feet northwest of the existing Garfield Well in Villa Parke, a City park. A submersible pump would be located 350 feet below the ground surface to ensure that minimal detectable level of sound would result from operation of the well. The existing Garfield Well's building enclosure would remain, to be used for the electrical equipment necessary for the proposed well. A chain-link fence of 10 feet by 15 feet (150 sf) would be constructed around the well pump for security and safety purposes.

**TABLE 1
MITIGATION MONITORING AND REPORTING PROGRAM**

Project Design Features and Mitigation Measures		Timing	Implementing Party	Monitoring Party
Biological Resources				
MM BIO-1	<p>To the extent practical and feasible, Project construction shall be conducted between September 16 and January 31, which is outside the bird nesting season. Construction conducted within this period shall be considered in compliance with the conditions set forth in the Migratory Bird Treaty Act (MBTA) and <i>California Fish and Game Code</i> with methods approved by the U.S. Fish and Wildlife Service (USFWS) and California Department of Fish and Wildlife (CDFW) to protect active bird/raptor nests. If the nature of the proposed construction activities requires that work be conducted during the breeding season for nesting birds (March 15–September 15) or nesting raptors (February 1–June 30), in order to avoid direct impacts on active nests, a pre-construction survey shall be conducted by a qualified Biologist for nesting birds and/or raptors within 3 days prior to any Project construction or disturbance activities (i.e., within 300 feet for nesting birds and within 500 feet for nesting raptors). If the Biologist does not find any active nests within or immediately adjacent to the impact area, the construction work shall be allowed to proceed. If a lapse of more than three days occurs between outdoor disturbance activities, the nesting bird survey will need to be repeated as nesting activities may potentially occur in that time frame. Results of the surveys will be provided to the CDFW.</p> <p>If the Biologist finds an active nest within or immediately adjacent to the construction area and determines that the nest may be impacted or breeding activities substantially disrupted, the Biologist shall delineate an appropriate buffer zone (at a minimum of 25 feet) around the nest depending on the sensitivity of the species and the nature of the construction activity. Any nest found during survey efforts shall be mapped on the construction plans. The active nest shall be protected until nesting activity has ended. To protect any nest site, the following restrictions to construction activities shall be required until nests are no longer active, as determined by a qualified Biologist: (1) disturbance limits shall be established within a buffer around any occupied nest (the buffer shall be 25–100 feet for nesting birds and 300–500 feet for nesting raptors), unless otherwise determined by a qualified Biologist and (2) access and surveying shall be restricted within the buffer of any occupied nest, unless otherwise determined by a qualified Biologist. Encroachment into the buffer area around a known nest shall only be allowed if the Biologist determines that the proposed activity would not disturb the nest occupants. Construction</p>	<p>During the breeding season for nesting birds (March 15–September 15) and nesting raptors (February 1–June 30), surveys shall occur within 3 days prior to any Project construction or disturbance activities</p>	<p>PWP’s Construction Manager/Contractor</p>	<p>PWP/CDFW</p>

**TABLE 1
MITIGATION MONITORING AND REPORTING PROGRAM**

Project Design Features and Mitigation Measures	Timing	Implementing Party	Monitoring Party
can proceed when the qualified Biologist has determined that fledglings have left the nest or the nest has failed.			
MM BIO-2 During Project construction activities, all trees within 25 feet of work areas shall be demarcated in the field with orange construction fencing or other high-visibility flagging, to ensure avoidance during construction.	During Project construction activities	PWP's Construction Manager/Contractor	PWP
Cultural Resources			
MM CUL-1 Prior to commencement of ground-disturbing activities, the City shall retain a qualified Archaeologist for on-call services in the event of a discovery of cultural resources (i.e., archaeological sites) below the ground surface. The Archaeologist shall be present at the pre-construction conference, and shall establish, in cooperation with the Contractor, procedures for temporarily halting or redirecting work to permit the sampling, identification, and evaluation of the artifacts. Should archaeological resources be found during ground-disturbing activities for the Project, the Archaeologist shall first determine whether it is a "unique archaeological resource" pursuant to the California Environmental Quality Act (CEQA, i.e., Section 21083.2[g] of the <i>California Public Resources Code</i>), a "historical resource" pursuant to Section 15064.5(a) of the State CEQA Guidelines. If the above-mentioned resources are found during ground-disturbing activities, the Archaeologist shall formulate a report and a mitigation plan in consultation with the City of Pasadena and tribal representatives that satisfies the requirements of the above-referenced sections. The report shall follow guidelines of the California Office of Historic Preservation, and s/he shall record the site and submit the recordation form to the City of Pasadena and the California Historic Resources Information System (CHRIS) at the South Central Coastal Information Center (SCCIC) located at California State University, Fullerton. The disposition of the resources shall be subject to approval by the City. If resources are discovered, work may proceed in other areas of the site, subject to the direction of the Archaeologist.	Prior to commencement of ground-disturbing activities	PWP	PWP

**TABLE 1
MITIGATION MONITORING AND REPORTING PROGRAM**

Project Design Features and Mitigation Measures		Timing	Implementing Party	Monitoring Party
Geology and Soils				
MM GEO-1	<p>Prior to commencement of ground-disturbing activities, the City shall retain a qualified Paleontologist for on-call services in the event of a discovery of paleontological resources below the ground surface. The Paleontologist shall be present at the pre-construction conference; and shall establish, in cooperation with the Contractor, procedures for temporarily halting or redirecting work to permit the sampling, identification, and evaluation of the paleontological resources. Should these resources be found during ground-disturbing activities for the Project, the Paleontologist shall first determine whether it is a "unique paleontological resource" pursuant to the California Environmental Quality Act (CEQA, i.e., Section 21083.2[g] of the <i>California Public Resources Code</i>), or a significant paleontologically-sensitive rock formation. If the above-mentioned resources are found during ground-disturbing activities, the Paleontologist shall formulate a report and a mitigation plan in consultation with the City of Pasadena that satisfies the requirements of the above-referenced sections. The disposition of the resources shall be subject to approval by the City. If resources are discovered, work may proceed in other areas of the site, subject to the direction of the Paleontologist.</p>	Prior to commencement of ground-disturbing activities	PWP, PWP's Construction Manager/Contractor	PWP
Hazards and Hazardous Materials				
MM HAZ-1	<p>During all earthmoving and construction activities, the City shall require the Contractors to implement the following measures:</p> <ul style="list-style-type: none"> • Trucks and equipment entering the site shall be inspected to be free from oil, gasoline, or other vehicle fluid leaks. • Any hazardous material spills and/or contaminated soils shall be excavated immediately upon discovery and tested prior to disposal to ensure proper handling and transport in compliance with applicable federal, state, and local regulations governing the handling of hazardous materials. • The Contractor shall maintain hazardous materials spill control, containment, and cleanup kits of adequate size and materials for potential accidental spills and releases. 	During earthmoving and construction activities	PWP's Construction Manager/Contractor	PWP

**TABLE 1
MITIGATION MONITORING AND REPORTING PROGRAM**

Project Design Features and Mitigation Measures	Timing	Implementing Party	Monitoring Party
Noise			
<p>MM NOI-1 The Construction Contractor shall ensure the following best management practices for construction equipment are met during construction activities:</p> <ul style="list-style-type: none"> a. All stationary or mobile construction equipment shall be equipped with properly-operating and maintained mufflers, compliant with or exceeding manufacturers' standards. b. All construction equipment engine enclosures and covers, as provided by manufacturers, shall be in place during construction activities. c. All construction equipment shall be shut down when not in use. d. During Project construction, export of drill cuttings via trucks shall be limited to the hours of 7 AM through 7 PM. e. Construction-standard high-pitch backup alarms for construction equipment and vehicles shall not be used during construction of the Project. Construction equipment and vehicles shall use low-impact backup alarms, including, but not limited to, the following: manually-adjustable alarms, self-adjusting alarms, and broadband (white noise) alarms. These alarms shall conform to the safety requirements established by the Occupational Safety and Health Administration (OSHA). f. An electric circulation tank motor shall be used for well-drilling activities, instead of a diesel-fueled circulation tank motor, if commercially available. If an electric circulation tank motor is not commercially available, an engine enclosure provided by the manufacturer shall be used to cover the diesel-fueled circulation tank motor in addition to the constructed enclosure identified under MM NOI-2b. 	<p>Prior to and during construction activities</p>	<p>PWP's Construction Manager/Contractor</p>	<p>PWP</p>

**TABLE 1
MITIGATION MONITORING AND REPORTING PROGRAM**

Project Design Features and Mitigation Measures	Timing	Implementing Party	Monitoring Party
<p>MM NOI-2 During nighttime construction activity (i.e., from 7 PM to 7 AM), the Construction Contractor shall ensure that the following best management practices for sound barriers are implemented:</p> <ul style="list-style-type: none"> a. During nighttime construction activities (i.e., from 7 PM to 7 AM), 24-foot tall sound barriers, with a minimum sound transmission class (STC) rating of 25, must be erected along all sides of the construction area where continuous construction activities would occur. b. Sound barrier enclosures shall enclose all stationary equipment sources of noise. These enclosures shall be constructed of either ¾-inch plywood or greater thickness or sound blankets with a minimum STC rating of 25 and cover all sides as well as the top of the equipment. Minimal gaps in the enclosure are acceptable to ensure adequate air intake, exhaust ventilation, and heat dissipation for proper equipment functioning. c. Liquid storage tanks (i.e., Baker tanks) shall be strategically placed between the circulation tank motor and the nearest residential use. 	<p>Prior to and during construction activities</p>	<p>PWP's Construction Manager/Contractor</p>	<p>PWP</p>
<p>MM NOI-3 Prior to commencement of nighttime Project construction, the City of Pasadena shall establish a designated phone hotline and email address for Project-related information and complaints from the surrounding neighborhood. The City shall designate a Noise Complaint Manager to monitor this phone hotline and email. Fliers or posters must be posted and visible at the Project boundary at least one week prior to commencement of nighttime construction activity and continue throughout the nighttime construction duration. These posters must provide the following information: nighttime construction duration and other related details, and contact information for the phone hotline and email address.</p>	<p>Prior to and during construction activities</p>	<p>PWP</p>	<p>PWP</p>

**TABLE 1
MITIGATION MONITORING AND REPORTING PROGRAM**

Project Design Features and Mitigation Measures	Timing	Implementing Party	Monitoring Party
<p>MM NOI-4 Prior to commencement of nighttime construction activities, the City shall retain a Noise Monitor for on-call services to monitor noise levels during nighttime construction activities (i.e., from 7 PM to 7 AM). The Noise Monitor shall monitor and record noise at the property line for the nearest residential uses (west and east of the Project site) to ensure that noise levels from the Project construction site do not exceed 50 A-weighted decibels (dBA) at night. If Project-related noise levels exceed 50 dBA during nighttime activities, additional noise reduction measures shall be implemented to further reduce construction noise at the Project site to a level at or below 50 dBA, such as additional vertical and horizontal sound barriers.</p>	<p>Prior to and during construction activities</p>	<p>PWP, PWP's Construction Manager/Contractor</p>	<p>PWP</p>
Recreation			
<p>MM REC-1 Prior to the closure of recreational facilities (including basketball courts and open space areas), the Construction Contractor shall post signs at the parking lots and Villa Parke entrances providing at least one week of advanced notice of the dates and times of planned Villa Parke area closures.</p>	<p>Prior to the closure of Villa Parke for Project activities</p>	<p>PWP's Construction Manager/Contractor</p>	<p>PWP</p>
Tribal Cultural Resources			
<p>MM TCR-1 Prior to commencement of ground-disturbing activities, the City of Pasadena (City) shall retain a qualified Native American Monitor (NAM) who is culturally affiliated with the Project area and/or otherwise approved by the Gabrieleño Band of Mission Indians-Kizh Nation Tribal Government to observe ground-disturbing activities, which may include, but are not limited to, pavement removal, pot-holing or augering, grubbing, tree removals, boring, grading, excavation, drilling, and trenching, within the Project Area. Additionally, per MM CUL-1, prior to commencement of ground-disturbing activities, the City shall retain a qualified Archaeologist for on-call services in the event of discovery of cultural resources. Monitoring by the NAM is only to occur onsite when well drilling is scheduled below the ground surface (bgs) and is not to exceed five consecutive working days. The NAM shall complete daily monitoring logs providing descriptions of the day's activities including construction activities, locations, soil, and any cultural materials identified. All discovered TCRs found during ground-disturbing activities for the Project shall be temporarily curated in a secure location on site by the Project Archaeologist. If removal of artifacts from the Project site is necessary, each artifact shall be catalogued, and an inventory will be provided to the Tribal monitor upon each addition. Following the completion of the Project, all TCRs shall be</p>	<p>Prior to ground-disturbing activities</p>	<p>PWP, PWP's Construction Manager/Contractor</p>	<p>PWP</p>

**TABLE 1
MITIGATION MONITORING AND REPORTING PROGRAM**

Project Design Features and Mitigation Measures	Timing	Implementing Party	Monitoring Party
<p>returned to the Tribe. Regardless of discovery, at the completion of all ground-disturbing activities, the Project Archaeologist shall formulate a Monitoring Report and submit said report to the City of Pasadena and the South Central Coastal Information Center (SCCIC) located at California State University, Fullerton and the Gabrieleño Band of Mission Indians-Kizh Nation Tribal Government. The report will document all monitoring efforts and the NAM and be completed within 60 days of conclusion of all ground-disturbing activities. The disposition of the resources shall be subject to approval by the City. If resources are discovered, work may proceed in other areas of the site, subject to the direction of the Archaeologist or NAM.</p>			
<p>MM TCR-2 In accordance with Section 7050.5 of the California Health and Safety Code, if human remains are found within the Project site, the County Coroner shall be immediately notified of the discovery. No further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent remains, and no less than 150 feet from the discovery, shall occur until the County Coroner has determined, within two working days of notification of the discovery, the appropriate treatment and disposition of the human remains. To prevent any further disturbance, the remains shall be kept confidential and secure until treatment is complete. If the County Coroner determines that the remains are, or are believed to be, Native American, he or she shall contact, by telephone the Native American Heritage Commission (NAHC) in Sacramento within 24 hours, and California Public Resources Code (PRC), Section 5097.98 shall be followed. In accordance with PRC 5097.98, the NAHC must immediately notify those persons it believes to be the most likely descendant (MLD) of the deceased Native American. Funerary objects, called associated grave goods in PRC 5097.98, are also to be treated according to this statute. The MLD shall complete his/her inspection within 48 hours of being granted access to the site. The designated MLD shall then determine, in consultation with the property owner, the disposition of the human remains. It is then at the MLD's discretion which Tribal entities are consulted with regarding the treatment of human remains.</p>	<p>During construction activities</p>	<p>PWP, PWP's Construction Manager/Contractor</p>	<p>PWP</p>
<p>CDFW: California Department of Fish and Wildlife; PWP: City of Pasadena Water and Power Department.</p>			