

Devil's Gate Reservoir Restoration Project First Quarter Compliance Report Activities Occurring Between January 2022 and March 2022

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1.0 INTRODUCTION

1.1 Purpose

This Quarterly Compliance Report was prepared to document the activities that occurred at the Devil's Gate Reservoir Restoration Project (Project) site located in the city of Pasadena, Los Angeles County, California during the first quarter of 2022 (January through March). This Quarterly Compliance Report satisfies Condition 6.7 in the Incidental Take Permit (ITP) No. 2081-2016-031-05 that was issued for the Project from the California Department of Fish and Wildlife (CDFW), dated July 16, 2018.

Condition 6.7 in the ITP states:

"The Designated Representative or Designated Biologist shall compile the observation and inspection records identified in Condition of Approval 6.6 into a Quarterly Compliance Report during time periods when Initial Sediment Removal and Habitat Restoration activities have occurred. Quarterly Compliance Reports and a copy of the MMRP table with notes showing the current implementation status of each mitigation measure shall be submitted to CDFW's Regional Representative and Headquarters CESA Program."

This is the fourteenth report (Quarterly Compliance Report Number 14) submitted in accordance with ITP Condition number 6.7. This report covers activities that were conducted at the Project site between January 1 and March 31, 2022.

2.0 COVERED ACTIVITIES

2.1 Breeding Season Surveys

Per Condition 7.3.4 of the ITP, if Covered Activities are proposed during the least Bell's vireo (*Vireo bellii pusillus*) breeding season (defined as March 1 to September 15) "the Designated Biologist(s) shall continue weekly focused surveys within 500 feet of Covered Activities in Covered Species habitat during the breeding season to determine the presence of Covered Species;"

Per Conservation Measure 11b of the USFWS Informal Section 7 Consultation, if sediment removal is conducted between March 15 and August 31 "twice weekly surveys for the vireo will be conducted by the biological monitor in areas of suitable habitat within 500 feet of proposed construction activities to determine the presence of vireo nest building activities, egg incubation activities, or brood rearing activities."

No sediment removal activities were conducted during the first quarter of 2022. As such, weekly breeding season focused least Bell's vireo surveys (per ITP Condition 7.3.4) were conducted beginning the first week of March 2022. A total of five focused breeding season least Bell's vireo surveys were conducted between March 1 and March 31, 2022 by Designated Biologists approved by CDFW and USFWS. Weekly least Bell's vireo surveys will continue during the second quarter of 2022. Table 1 shows the weekly focused least

Bell's vireo survey dates during the first quarter reporting period and the Designated Biologists that surveyed on each date.

Table 1. First Quarter 2022 Focused Breeding Season Least Bell's Vireo Survey Dates and Personnel.	
Date	Designated Biologist
03/01/22	Lauren Simpson
03/11/22	Taylor Dee
03/17/22	Lauren Simpson
03/24/22	Lauren Simpson
03/31/22	Shannan Shaffer

No least Bell's vireos were observed or detected during the focused breeding season surveys during the first quarter of 2022. The least Bell's vireo breeding season survey report for March 2022 is included in Appendix A.

2.2 Biological Monitoring

Per Condition 6.6 in the ITP, "The Designated Biologist shall be on site daily when Covered Activities occur and when Covered Species are present, and weekly when Covered Species have potential to be present." Per Conservation Measure 10 of the USFWS Informal Section 7 Consultation "If construction occurs between September 1 to March 14 (outside of the vireo breeding and nesting season), a designated construction monitor will conduct twice weekly inspections of the project site."

No construction related activities (including site preparation for sediment removal or sediment removal activities) occurred during this reporting period. As such, no construction monitoring or inspections occurred during this reporting period.

Daily biological monitoring of restoration activities occurred whenever vegetation removal and/or plantings took place. Nesting bird season began towards the end of this reporting quarter and Designated Biologists began identifying active bird nests on the Project site and implementing appropriate no-work buffers around nests identified during the surveys. Table 2 shows Project working dates and the biological monitors that were present on each date.

Table 2. Monitors Onsite During Work Days.	
Date	Restoration Monitors
01/03/22	Dawn Garcia
01/04/22	Dawn Garcia, Lela Updegrave
01/05/22	Lela Updegrave, Scott Werner
01/06/22	Lela Updegrave, Michael Walsh
01/07/22	Lela Updegrave, Michael Walsh
01/10/22	Lela Updegrave, Michael Walsh
01/11/22	Lela Updegrave, Michael Walsh
01/12/22	Kristen Klinefelter, Amy Plesetz
01/13/22	Lela Updegrave, Michael Walsh
01/14/22	Lela Updegrave, Michael Walsh
01/17/22	Lela Updegrave, Michael Walsh
01/18/22	Lela Updegrave, Michael Walsh
01/19/22	Lela Updegrave, Scott Werner
01/20/22	Dawn Garcia, Lela Updegrave

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Table 2. Monitors Onsite During Work Days.

Date	Restoration Monitors
01/21/22	Dawn Garcia, Kristen Klinefelter
01/24/22	Lela Updegrave, Michael Walsh
01/25/22	Lela Updegrave, Michael Walsh
01/26/22	Amy Plesetz, Kristen Klinefelter
01/27/22	Lela Updegrave, Michael Walsh
01/28/22	Lela Updegrave
01/31/22	Lela Updegrave
02/01/22	Dawn Garcia, Lela Updegrave
02/02/22	Kristen Klinefelter, Michael Walsh
02/03/22	Michael Walsh, Scott Werner
02/04/22	Lela Updegrave, Michael Walsh
02/07/22	Lela Updegrave, Michael Walsh
02/08/22	Lela Updegrave, Michael Walsh
02/09/22	Lela Updegrave, Amy Plesetz
02/10/22	Lela Updegrave, Michael Walsh
02/11/22	Kristen Klinefelter
02/14/22	Lela Updegrave, Michael Walsh
02/15/22	Lela Updegrave, Michael Walsh, Scott Werner
02/16/22	Lela Updegrave, Margie Pfeffer, Scott Werner
02/17/22	Kristen Klinefelter, Michael Walsh, Scott Werner
02/18/22	Lela Updegrave
02/21/22	President's Day
02/22/22	Amy Plesetz, Dawn Garcia, Lela Updegrave, Michael Walsh
02/23/22	Amy Plesetz, Lela Updegrave
02/24/22	Lela Updegrave, Michael Walsh
02/25/22	Kristen Klinefelter, Margie Pfeffer, Michael Walsh
02/28/22	Margie Pfeffer, Lela Updegrave, Michael Walsh
03/01/22	Lela Updegrave, Michael Walsh, Scott Werner
03/02/22	Lela Updegrave, Scott Werner
03/03/22	Lela Updegrave, Margie Pfeffer, David Torfeh
03/04/22	Kristen Klinefelter
03/07/22	Amy Plesetz, Dawn Garcia, Lela Updegrave
03/08/22	Dawn Garcia, David Torfeh, Lela Updegrave
03/09/22	Kristen Klinefelter, Margie Pfeffer, Scott Werner
03/10/22	Lela Updegrave, Michael Walsh, Scott Werner
03/11/22	Lela Updegrave, Margie Pfeffer
03/14/22	Amy Plesetz, Lela Updegrave, Michael Walsh
03/15/22	Amy Plesetz, Lela Updegrave, Michael Walsh
03/16/22	Michael Walsh, Scott Werner, Lela Updegrave
03/17/22	Michael Walsh, Scott Werner, Lela Updegrave
03/18/22	Michael Walsh, David Torfeh, Kristen Klinefelter
03/21/22	Amy Plesetz, Dawn Garcia, Lela Updegrave
03/22/22	Amy Plesetz, Dawn Garcia, Lela Updegrave
03/23/22	Lela Updegrave, Margie Pfeffer, Scott Werner
03/24/22	Lela Updegrave, Margie Pfeffer, Scott Werner
03/25/22	David Torfeh, Kristen Klinefelter, Margie Pfeffer
03/28/22	No Work – Weather
03/29/22	Amy Plesetz, Dawn Garcia, Lela Updegrave
03/30/22	Lela Updegrave, Margie Pfeffer, Scott Werner
03/31/22	Michael Walsh, Scott Werner, Kristen Klinefelter
No construction monitoring occurred because no construction activities occurred during the first quarter 2022 reporting period.	

The Project and restoration activities conducted during this quarter are summarized in the sections below.

2.3 Project Activities

No construction related Project activities were conducted onsite during the first quarter 2022 reporting period.

2.4 Habitat Restoration Activities

The following habitat restoration activities were conducted onsite during this reporting period:

- Restoration activities continued from January 3, 2022 through March 31, 2022.
- Low-growing non-native plants (including perennial pepperweed [*Lepidium latifolium*], black mustard [*Brassica nigra*], horseweed [*Erigeron canadensis*], wild radish [*Raphanus sativus*], poison hemlock [*Conium maculatum*], hairy bittercress [*Cardamine hirsuta*], ripgut brome [*Bromus diandrus*], cheatgrass [*Bromus tectorum*], shepherd's purse [*Capsella bursa-pastoris*], shortpod mustard [*Hirschfeldia incana*], Italian thistle [*Carduus pycnocephalus*], red stemmed filaree [*Erodium cicutarium*], chickweed [*Stellaria media*], dwarf nettle [*Urtica urens*], California burclover [*Medicago polymorpha*], sweet clover [*Melilotus indicus*], dead nettle [*Lamium purpureum*], tree tobacco [*Nicotiana glauca*], giant reed [*Arundo donax*], Russian thistle [*Salsola tragus*], sow thistle [*Sonchus oleraceus*], milk thistle [*Silybum marianum*], knotweed [*Polygonum* sp.], hedge mustard [*Sisymbrium officinale*], lambs quarters [*Chenopodium album*], and annual fescue [*Fetuca myuros*], were removed from the DG-1, DG-2, DG-2B, DG-W-2 Mining Pit Outlet, DG-3A, DG-3B, DG-4, DG-4A, DG-4B, DG-4C, DG-4 WOUS, DG-4 WOUS connections, DG-4 drainage, DG-5, mining pit, Johnson field, DG-7, and DG-8 onsite restoration areas by hand pulling and using small hand tools, shovels, tarps, weed whips, hula hoes, and rakes. A line trimmer was also utilized when appropriate. Trees felled during high winds were processed using a chainsaw. Pulled plants were removed from restoration sites daily and placed into onsite dumpsters that were emptied regularly.
- Grading was undertaken with a skid steer, mini bulldozers, and an excavator in DG-4 WOUS in preparation for plantings. An excavator was also used to de-compact the tire wash area.
- Red willow (*Salix laevigata*) stakes and mulefat (*Baccharis salicifolia*) cuttings were collected in DG-4 using hand tools. Willow and mulefat cuttings were harvested and installed according to the Final Habitat Restoration Plan for the Project and Permit PW-11-19.
- Irrigation systems were installed in DG-4A, DG-4-WOUS, and at the tire wash.

Habitat restoration monitoring logs for this quarter detailing daily activities are included in Appendix B.

3.0 SATISFACTION OF ITP CONDITIONS

All provisions in the ITP were adhered to during Project activities conducted during this reporting period. No non-compliances were documented during this reported period. No direct or indirect take to listed species or Covered Species occurred during this reporting period. The next Quarterly Compliance Report will cover the next reporting period from April 1, 2022 to June 30, 2022.

4.0 MITIGATION MONITORING AND REPORTING PROGRAM

Per Condition 6.7 of the ITP, Table 4 presents the Mitigation Monitoring and Reporting Program table that was prepared for the Recirculated Portions of the Final Environmental Impact Report with notes showing the current implementation status of each mitigation measure.

MITIGATION MONITORING AND REPORTING PROGRAM Devil’s Gate Reservoir Sediment Removal and Management Project							
Mitigation Measure	Implementation Phase*	Monitoring Phase*	Enforcement Agency	Level of Significance After Mitigation	Verification of Compliance		
					Initial	Date	Remarks
BIOLOGICAL RESOURCES							
MM BIO – 1: A qualified biological monitor shall be present during initial ground- or vegetation-disturbing project-related activities to provide measures and monitor for wildlife in harm’s way. This includes initial ground- or vegetation-disturbing project-related activities at the annual start of each year of sediment removal or maintenance activities. Following initial project-related activities, a qualified monitoring biologist shall be present as necessary to maintain the implemented protection measures and monitor for additional species in harm’s way. These protection measures shall include, as appropriate: redirecting wildlife, identifying areas that may require exclusionary devices (e.g., fencing), or capturing and relocating wildlife outside the work area. Any captured species shall be relocated to adjacent appropriate habitat that is contiguous to adjacent habitat and not impacted by project-related disturbance activities.	Pre-Sediment Removal; Sediment Removal; Reservoir Management	Pre-Sediment Removal; Sediment Removal; Reservoir Management	Los Angeles County Flood Control District	Less than significant		11/28/18 - ongoing	No initial ground- or vegetation-disturbing construction related activities occurred during the 2022 first quarter reporting period. A qualified biologist continued to be present during restoration activities requiring vegetation removal during the 2022 first quarter reporting period. See Table 2 for details.
MM BIO – 2: Within 90 days prior to ground-disturbing activities, a sensitive species educational briefing shall be conducted by a qualified biologist for construction personnel. The biologist will identify all sensitive resources that may be encountered onsite, and construction personnel will be instructed to avoid and report any sightings of sensitive species to the Los Angeles County Flood Control District (LACFCD) or the monitoring biologist. Educational briefings shall be repeated annually for the duration of the sediment removal.	Final Plans and Specifications; Pre-Sediment Removal; Sediment Removal; Reservoir Management	Pre-Sediment Removal; Sediment Removal; Reservoir Management	Los Angeles County Flood Control District	Less than significant		11/28/18 - ongoing	An initial training was conducted on the first day of construction (Nov 28, 2018). Additional trainings were provided on an as-needed basis to new project personnel afterwards during the 2022 first quarter reporting period.
MM BIO – 3: Within 90 days prior to ground-disturbing activities, a preconstruction survey shall be conducted by a qualified biologist for the presence of any sensitive species in harm’s way, including coast range newt, southwestern pond turtle, and two-striped garter snake. If sensitive species are observed in harm’s way, the qualified biologist will develop and implement appropriate protection measures for that species. These protection measures shall include, as appropriate: redirecting the species, constructing exclusionary devices (e.g., fencing), or capturing and relocating wildlife outside the work area. Preconstruction surveys shall be repeated annually for the duration of the sediment removal. Observations of special status species made during these surveys shall be recorded onto a California Natural Diversity Database (CNDDB) field data sheet and submitted to CDFW for inclusion into the CNDDB.	Pre-Sediment Removal; Sediment Removal; Reservoir Management	Pre-Sediment Removal; Sediment Removal; Reservoir Management	Los Angeles County Flood Control District	Less than significant		11/01/18 - 11/27/18, 3/15/19 - 4/14/19, 3/1/20 – 5/19/20, 3/17/21-3/26/21	No construction ground-disturbing activities occurred during the first quarter of 2022. As such, no preconstruction surveys for sensitive wildlife species took place during the first quarter of 2022.
MM BIO – 4: LACFCD, in consultation with a qualified biologist, will employ bird exclusionary measures (e.g., mylar flagging) prior to the start of bird breeding season to prevent birds nesting within established boundaries of the project. Prior to commencement of sediment removal activities within bird breeding season (March 1-August 31), a preconstruction bird nesting survey shall be conducted by a qualified biologist for the presence of any nesting bird within 300 feet of the construction work area. The surveys shall be conducted 30 days prior to the disturbance of suitable nesting habitat by a qualified biologist with experience in conducting nesting bird surveys. The surveys shall continue on a weekly basis with the last survey being conducted no more than three days prior to the initiation of clearance/construction work. Preconstruction surveys shall be repeated annually for the duration of the sediment removal. If an active nest is found, the qualified biologist will develop and implement appropriate protection measures for that nest. These protection measures shall include, as appropriate, construction of exclusionary devices (e.g., netting) or avoidance buffers. The biologist shall have the discretion to adjust the buffer area as appropriate based on the proposed construction activity, the bird species involved, and the status of the nest and nesting activity; but shall be no less than 30 feet. Work in the buffer area can resume once the nest is determined to be inactive by the monitoring biologist.	Final Plans and Specifications; Pre-Sediment Removal; Sediment Removal; Reservoir Management	Pre-Sediment Removal; Sediment Removal; Reservoir Management	Los Angeles County Flood Control District	Less than significant		3/15/19 - 4/14/19, 3/16/20 - 5/19/20, 3/1/21 – 4/16/21	No construction ground-disturbing activities occurred during the first quarter of 2022. As such, no preconstruction surveys for nesting birds took place during the first quarter of 2022.
MM BIO – 5: Within 30 days prior to commencement of vegetation or structure removal activities, a preconstruction bat survey shall be conducted by a qualified biologist for the presence of any roosting bats. Acoustic recognition technology shall be used if feasible and appropriate. If either a bat maternity roost or hibernacula (structures used by bats for hibernation) are present, a qualified biologist will develop and	Final Plans and Specifications; Pre-Sediment Removal; Sediment Removal; Reservoir Management	Pre-Sediment Removal; Sediment Removal; Reservoir Management	Los Angeles County Flood Control District	Less than significant		11/06/2018 – 11/08/2018	Preconstruction bat surveys were conducted prior to the initiation of project activities in the fourth quarter of 2018. No

Table 4. Devil’s Gate Mitigation Monitoring and Reporting Program

MITIGATION MONITORING AND REPORTING PROGRAM Devil's Gate Reservoir Sediment Removal and Management Project							
Mitigation Measure	Implementation Phase*	Monitoring Phase*	Enforcement Agency	Level of Significance After Mitigation	Verification of Compliance		
					Initial	Date	Remarks
<p>implement appropriate protection measures for that maternity roost or hibernacula. These protection measures shall include, as appropriate: safely evicting non-breeding bat hibernacula, establishment of avoidance buffers, or replacement of roosts at a suitable location. These measures shall also include as appropriate:</p> <ul style="list-style-type: none">• To the extent feasible, trees that have been identified as roosting sites shall be removed or relocated between October 1 and February 28.• When trees must be removed during the maternity roost season (March 1 to September 30), a qualified bat specialist shall conduct a preconstruction survey to identify those trees proposed for disturbance that could provide hibernacula or nursery colony roosting habitat for bats.• Trees identified as potentially supporting an active nursery roost shall be inspected by a qualified biologist no greater than seven days prior to tree disturbance to determine presence or absence of roosting bats.• Trees determined to support active maternity roosts will be left in place until the end of the maternity season (September 30).• If bats are not detected in a tree, but the qualified biologist determined that roosting bats may still be present, trees shall be removed as follows:<ul style="list-style-type: none">○ Pushing the tree down with heavy machinery instead of felling the tree with a chainsaw.○ First pushing the tree lightly two to three times with a pause of 30 seconds in between each nudge to allow bats to become active, and then pushing the tree to the ground slowly.○ Allowing the tree to remain in place for 24 to 48 hours until inspected by the qualified biologist for presence or absence of roosting bats. <p>The qualified biologist shall document all bat survey, monitoring, and protection measure activities and prepare a summary report for LACFCD.</p>							surveys related to this measure were required during the 2022 first quarter reporting period.
<p>MM BIO – 6: Riversidean Alluvial Fan Sage Scrub habitat shall be restored and/or enhanced at a 1:1 ratio by acreage. LACFCD, with the help of professional restoration ecologists, will develop the means and methods of successful restoration and enhancement of this sensitive habitat. Measures to achieve not less than a 1:1 replacement, or no net loss, of Riversidean Alluvial Fan Sage Scrub shall include but not be limited to the following:</p> <ul style="list-style-type: none">• Conduct a vegetation survey within the impact area prior to commencement of vegetation removal activities to verify the impact acreage of Riversidean Alluvial Fan Sage Scrub.• Identify and map the selected mitigation areas where Riversidean Alluvial Fan Sage Scrub will be enhanced or restored using aerial photographs. Priority for mitigation site locations shall be onsite, offsite within Arroyo Seco subwatershed, and offsite within the greater Los Angeles River watershed.• Select offsite reference sites where Riversidean Alluvial Fan Sage Scrub is the established plant community. The reference sites will be used to establish the necessary performance standards to which the mitigation site will be measured. Performance standard parameters will include percent cover of native plant species, percent cover of nonnative and invasive plant species, and native plant species richness (number of different plant species).• Prepare and implement a site-specific Habitat Restoration Plan that will result in the successful restoration and enhancement at the selected mitigation sites. The Habitat Restoration Plan, at a minimum, shall include guidelines and specifications for the following:<ul style="list-style-type: none">○ Site-specific container plant (if applicable) and seed palettes,○ Irrigation plan,○ Nonnative and invasive plant species removal,○ Maintenance and monitoring schedule,○ Qualitative and quantitative monitoring methodologies,○ Selection criteria of reference sites,	<p>Reservoir Management</p> <ul style="list-style-type: none">• Prepare Habitat Restoration Plan• Identify/Map Mitigation Sites• Install Plant Materials• Monitor Installation• Install Irrigation, if Necessary• Prepare As-Built Report• Conduct Maintenance• Prepare Monitoring Reports	<p>Reservoir Management</p> <ul style="list-style-type: none">• Identify Reference Sites• Conduct Qualitative and Quantitative Monitoring• Conduct Maintenance• Implement Adaptive Management Measures, if Necessary• Prepare Monitoring Reports• Prepare Annual Reports• Achieve Mitigation Site Sign- Off	<p>Los Angeles County Flood Control District</p>	<p>Less than significant</p>		<p>11/19/18 - ongoing</p>	<p>Restoration activities were continued during the 2022 first quarter reporting period.</p>

Table 4. Devil’s Gate Mitigation Monitoring and Reporting Program

MITIGATION MONITORING AND REPORTING PROGRAM Devil's Gate Reservoir Sediment Removal and Management Project							
Mitigation Measure	Implementation Phase*	Monitoring Phase*	Enforcement Agency	Level of Significance After Mitigation	Verification of Compliance		
					Initial	Date	Remarks
<ul style="list-style-type: none">○ Performance standards of the mitigation sites,○ Monitoring reports and annual reports schedule,○ Mitigation long-term management plan, and○ Funding description for implementation and long-term management.● Prepare an as-built plan after the installation of the plant and seed materials has been completed to document the acreage of each restored or enhanced plant community on the mitigation sites and to show that not less than a 1:1 replacement of sensitive habitats has been achieved.● Quantitatively monitor the mitigation sites until the performance standards have been met and restoration and enhancement of not less than 1:1 replacement of Riversidean Alluvial Fan Sage Scrub has been achieved. <p>Implement adaptive management measures if, during monitoring, the mitigation sites do not demonstrate measurable progress toward achieving the necessary performance standards or if unforeseen circumstances damage the mitigation sites. Adaptive management measures will include but not be limited to:</p> <ul style="list-style-type: none">○ Correctively re-grade areas if hydrologic or other conditions negatively affect the mitigation sites,○ Add soil amendments if problem soils may be inhibiting plant growth,○ Replant if plant survival is low or to increase plant species cover or diversity,○ Install different plant species for plant species that are not surviving, and○ Close trails or install barriers if human-caused impacts are damaging the mitigation sites.● Implement and monitor the required mitigation at alternative sites, chosen based on same priority methodology, if the mitigation sites do not achieve the performance standards after the implementation of adaptive management measures. LACFCD shall conduct qualitative and annual quantitative monitoring and prepare annual monitoring reports until the established performance standards are achieved.● Ensure the allocation and encumbrance of the funding necessary to implement the Habitat Restoration Plan, adaptive management measures, alternative mitigation sites (if necessary), and long-term management and protection of the mitigation sites.							
MM BIO – 7: Within 90 days prior to ground-disturbing activities, a qualified biologist shall conduct a tree survey within the project footprint to identify native city- protected trees that would be removed or potentially affected by the Proposed Project, native city-protected trees that can be avoided, and native city-protected trees that will require root zone protection. LACFCD would replace native city-protected trees that cannot be avoided. The replacement is expected to be at a 1:1 ratio by canopy acreage. The biological monitor shall implement measures to protect the root zone of oak trees that may be impacted immediately adjacent to the project site and along access roads. The acreage occupied by the canopies of the native city-protected trees to be removed will determine the appropriate level of tree replacement. LACFCD shall identify tree replacement areas that are no less than the acreage of the native city-protected tree canopies to be removed. Priority for tree replacement locations shall be onsite, offsite within Arroyo Seco subwatershed, and offsite within the greater Los Angeles River watershed. The number of replacement trees installed by LACFCD will be greater than the number of trees to be removed should the replacement tree be smaller and younger than the tree to be removed. LACFCD shall monitor the survival of the replacement trees for five years and replace those that do not survive within the monitoring period, ensuring that not less than 1:1 ratio of replacement, or no net loss, has been achieved.	Pre-Sediment Removal; Sediment Removal; Reservoir Management <ul style="list-style-type: none">● Conduct Tree Survey● Identify and Protect Oak Tree Root Zones● Identify/Map Mitigation Sites● Prepare Habitat Restoration Plan● Install Plant Materials● Monitor Installation● Install Irrigation, if Necessary● Prepare As-Built Report● Conduct Maintenance● Prepare Monitoring Reports	Pre-Sediment Removal; Sediment Removal; Reservoir Management <ul style="list-style-type: none">● Identify Reference Sites● Conduct Qualitative and Quantitative Monitoring● Conduct Maintenance● Implement Adaptive Management Measures, if Necessary● Prepare Monitoring Reports● Prepare Annual Reports● Achieve Mitigation Site Sign-Off	Los Angeles County Flood Control District	Less than significant		10/02/2018 – 10/05/2018	Preconstruction tree surveys were conducted prior to the initiation of project activities in the fourth quarter of 2018. No surveys related to this measure were required during the 2022 first quarter reporting period.
MM BIO – 8: A combination of onsite and offsite habitat restoration, enhancement, and exotic plant removal shall be implemented by LACFCD at a 1:1 ratio for impacted riparian habitat, sensitive natural communities, and jurisdictional waters. Habitat restoration/enhancement shall include use of willow cuttings and exotic plant species removal. Non-native, weedy habitats within the basin shall be utilized whenever possible as mitigation sites. LACFCD, with the help of professional restoration ecologists, will develop the means and methods of successful restoration and enhancement of riparian habitat, sensitive natural	Reservoir Management <ul style="list-style-type: none">● Prepare Habitat Restoration Plan● Identify/Map Mitigation Sites	Reservoir Management <ul style="list-style-type: none">● Identify Reference Sites● Conduct Qualitative and Quantitative Monitoring● Conduct Maintenance	Los Angeles County Flood Control District	Less than significant		11/19/18 - ongoing	Restoration activities were continued during the 2022 first quarter reporting period.

Table 4. Devil’s Gate Mitigation Monitoring and Reporting Program

MITIGATION MONITORING AND REPORTING PROGRAM Devil's Gate Reservoir Sediment Removal and Management Project							
Mitigation Measure	Implementation Phase*	Monitoring Phase*	Enforcement Agency	Level of Significance After Mitigation	Verification of Compliance		
					Initial	Date	Remarks
<p>communities, and jurisdictional waters. Measures to achieve not less than a 1:1 replacement, or no net loss, of riparian habitat, sensitive natural communities, and jurisdictional waters shall include but not be limited to the following:</p> <ul style="list-style-type: none">• Conduct a vegetation survey within the impact area prior to commencement of vegetation removal activities to verify the impact acreages of riparian habitat (Riparian Woodland and Mule Fat Thickets), sensitive natural communities (Coastal Sage Scrub), and jurisdictional waters (federally protected wetlands).• Identify and map the selected mitigation areas where riparian habitat, sensitive natural communities, and federally protected wetlands will be enhanced or restored. Priority for mitigation site locations shall be onsite, offsite within Arroyo Seco subwatershed, and offsite within the greater Los Angeles River watershed.• Select offsite reference sites where riparian habitats (Riparian Woodland and Mule Fat Thickets) and sensitive natural communities (coastal sage scrub) are the established plant communities and where federally protected wetlands are present. The reference sites will be used to establish the necessary performance standards to which the mitigation site will be measured. Performance standard parameters will include percent cover of native plant species, percent cover of nonnative and invasive plant species, native plant species richness (number of different plant species), structural patch richness, and wildlife use.• Prepare and implement a site-specific Habitat Restoration Plan that will result in the successful restoration and enhancement at the selected mitigation sites. The Habitat Restoration Plan, at a minimum, shall include guidelines and specifications for the following:<ul style="list-style-type: none">○ Site-specific container plant and seed palettes,○ Irrigation plan,○ Nonnative and invasive plant species removal,○ Maintenance and monitoring schedule,○ Qualitative and quantitative monitoring methodologies,○ Selection criteria of reference sites,○ Performance standards of the mitigation sites,○ Monitoring reports and annual reports schedule,○ Mitigation long-term management plan, and○ Funding description for implementation and long-term management.• Prepare an as-built plan after the installation of the plant and seed materials has been completed to document the acreage of each restored or enhanced plant community on the mitigation sites to show that the sites contain not less than a 1:1 replacement of riparian habitats, sensitive natural communities, and federally protected wetlands has been achieved.• Quantitatively monitor the mitigation sites until the performance standards have been met and restoration and enhancement of not less than 1:1 replacement of riparian habitats, sensitive natural communities, and federally protected wetlands has been achieved.• Implement adaptive management measures if, during monitoring, the mitigation sites do not demonstrate measurable progress achieving the necessary performance standards or if unforeseen circumstances damage the mitigation sites. Adaptive management measures will include but not be limited to:<ul style="list-style-type: none">○ Correctively re-grade areas if hydrologic or other conditions negatively affect the mitigation sites,○ Add soil amendments if problem soils may be inhibiting plant growth,○ Replant if plant survival is low or to increase plant species cover or diversity,○ Install different plant species for plant species that are not surviving, and○ Close trails or install barriers if human-caused impacts are damaging the mitigation sites.• Implement and monitor the required mitigation at alternative sites if the mitigation sites do not achieve the performance standards after the implementation of adaptive management measures. LACFCD shall conduct qualitative and annual quantitative monitoring and prepare annual monitoring	<ul style="list-style-type: none">• Install Plant Materials• Monitor Installation• Install Irrigation, if Necessary• Prepare As-Built Report• Conduct Maintenance• Prepare Monitoring Reports	<ul style="list-style-type: none">• Implement Adaptive Management Measures, if Necessary• Prepare Monitoring Reports• Prepare Annual Reports• Achieve Mitigation Site Sign- Off					

Table 4. Devil's Gate Mitigation Monitoring and Reporting Program							
MITIGATION MONITORING AND REPORTING PROGRAM Devil's Gate Reservoir Sediment Removal and Management Project							
Mitigation Measure	Implementation Phase*	Monitoring Phase*	Enforcement Agency	Level of Significance After Mitigation	Verification of Compliance		
					Initial	Date	Remarks
reports until the established performance standards are achieved. <ul style="list-style-type: none"> Ensure the allocation and encumbrance of the funding necessary to implement the Habitat Restoration Plan, adaptive management measures, alternative mitigation sites (if necessary), and long-term management and protection of the mitigation sites. Submit a report of the monitoring results annually following implementation of the restoration and enhancement activities at the mitigation sites, to resource agencies as required by the Section 401 Certification, Section 404 permit, and a Streambed Alteration Agreement until the mitigation sites have met the performance standards. 							

*The Implementation and Monitoring phases are broken down into four categories: Final Plans and Specifications; Pre- Sediment Removal; Sediment Removal; and Reservoir Management. "Final Plans and Specifications" indicates that the mitigation measure must be incorporated into the final approved design, plans, and specifications for the project. "Pre- Sediment Removal" refers to measures that are required prior to the start of the sediment removal phase. "Sediment Removal" refers to all aspects of the Sediment Removal phase. "Reservoir Management" refers to all aspects of the Reservoir Management phase.

LIST OF APPENDICES

Appendix A – Least Bell's Vireo March 2022 Breeding Season Survey Report

Appendix B: Habitat Restoration Monitoring Logs

APPENDIX A

Least Bell's Vireo March 2022 Breeding Season Survey Report

APPENDIX B

Habitat Restoration Monitoring Logs