

ENVIRONMENTAL DETERMINATION FORM 77B COMPLETED BY O&M ENVIRONMENTAL ASSESSMENT BRANCH



OF CALIFORN	TOP CALLED
TO: Jakob Schallberger, P.E.	<u>CLEARANCE BEGIN DATE</u> :
DOE Geotechnical Sciences Branch	13 March 2023
FROM: Sara Paiva-Lowry	<u>CLEARANCE END DATE</u> :
Environmental Regulatory Compliance	31 December 2023
FIELD DIVISION/HQ:	PROJECT TITLE:
Southern Field Division	Pyramid Dam Spillway Maintenance (OM-SFD-2023-004)
LOCATION OF PROJECT SITE	COORDINATES:
Pyramid Lake	<u>LAT</u> : 34°38'36.47"N
SWP FACILITY: Pyramid Dam Spillway	LONG: 118°45'59.80"W
<u>CITY/ COUNTY</u> :	CROSS STREETS: Templin Hwy and Golden State Hwy
Castaic / Los Angeles County	CROSS STREETS. Tempini riwy and Golden State riwy

DESCRIPTION OF WORK:

Department of Water Resources Staff with Contractor will conduct routine maintenance on the Pyramid Dam Spillway. Work will include spall, delamination, crack, and joint sealant repairs; installation of wildlife exclusion device extension pipes on the right wall footing drainpipes; hydro demolition and pressure washing.

Spall repairs will be done by pressure washing the concrete and patching the cleaned spall with repair concrete and by saw cutting to create a perimeter for concrete removal, then pressure jetting the concrete to a depth where sound concrete is found or 2 inches below existing reinforcement. The exposed concrete will be saturated with water and patched. Delamination repairs will be done by saw cutting to create a perimeter for concrete removal, then pressure jetting the concrete to remove to a depth where sound concrete is found or two inches below existing reinforcement. The exposed concrete will be saturated with water and patched with repair concrete. Crack repairs will be done by pressure washing the cracks and then injecting flexible cement into the cracks. Joint sealant will be repaired by removing it with a box cutter, knives, or other means. The joint opening will be sand blasted to remove surface laitance or remaining joint sealant. Sealant will then be applied to the cleaned joint.

Wildlife exclusion device extension pipes will be installed onto the existing drain outfall pipes on the right wall footings. The extension pipe will be inserted into the existing drainpipes. The pipe will extend six inches beyond the invert of the concrete to allow for visual confirmation of the outfalls seeping water.

Algae and organic growth will be removed by low pressure washing. Scaffolding may be placed to access the flip bucket at the bottom of the spillway. Water from hydro demolition and pressure washing will be collected in the flip bucket and may be pumped through a hose along the scaffolding to the parking lot to be collected in 55-gallon drums. Concrete and water that cannot be pumped will be removed using 5-gallon buckets and disposed.

The staging area at Pyramid Dam Spillway is located at the bottom left side of the spillway and at the top left of the spillway on the existing access road parking area. All haul routes and access to the sites will be on existing dam roads. All work is within DWR right of way.

RESTRICTIONS ON WORK: Refer to attached Form 77B environmental commitment matrix.						
PERMITS REQUIRED: None						
ISSUED BY:	DATE:	<u>TELEPHONE NUMBER:</u> 916-902-7709				
Sara Paiva—lowry 3/8/2023						

Pyramid Dam Spillway Maintenance OM-SFD-2023-004 Pyramid Dam Spillway Southern Field Division Los Angeles County

Date: 8 March 2023 Project Manager: Jakob Schallberger, P.E.

Environmental Commitment Type	Environmental Commitment Description	Reference	Responsible Branch / Staff	Timing / Phase	Action Taken to Comply with Task	Date Task Completed
	1. All workers at the project site must be aware of the restrictions on work contained within this clearance, and a copy of this clearance must be held by the supervisor on site at all times.	BMP	DOE	during work		
	All trash and debris must be removed at the end of the project.	BMP	DOE	during work		
Best Management Practices	3. All vehicles and equipment will be adequately maintained to limit the possibility of leaks and/or spills of petroleum products or other hazardous materials. All fuel powered/holding equipment must have secondary containment. If any spills do occur, clean up must begin immediately. No vehicles or equipment shall be operated outside of the designated paved or unpaved roads, and vehicle speed limit shall not exceed 25mph within Project site and surrounding area.	ВМР	DOE	during work		
	If any wildlife enters, or is observed within the project area, stop all work immediately and allow the wildlife to move out of the area on its own accord.	BMP	DOE	during work		
5. The Project is proposed to begin within the nesting bird season, February 1 through August 31, so prior to construction, it is recommended that a nesting bird survey be conducted if the project does not commence within 30-days of this survey to ensure no nests occur or continue to occur within the Project area. Surveys should be phased to match initiation of ground-disturbing activities across the sites, such that no more than 10 days elapse between the survey and ground-disturbing activities across the sites identified during the nesting bird survey, a no-work buffer will be implemented by the biologist at a buffer distance suitable to prevent the abandonment or failure to the nest. A biological monitor will be present onsite during construction activities near a nest buffer. If the bird becomes agitated, in the opinion of the biological monitor, the no-work buffer will be increased. Periodic observations of nest progress will be conducted by the biological monitor. In the opinion of the biological monitor, if a nest has successfully fledged, or has failed through natural causes, the buffer will be removed, and work can commence without restrictions. The biological monitor will update the Project foreman as needed.		Environmental Clearance	DOE	before work		
	6. Project manager and staff present on site must ensure that no sediment or rock resulting from work activities enters the waterway. To avoid accidental entry of sediment/rock resulting from work activities into the waterway, it is recommended to install erosion control measures such as silt fencing or a comparable barrier along the along the spillway. If the potential for materials to end up in the waterway arises, Environmental staff must be informed immediately.			during work		
	 No trees, or vegetation shall be removed or damaged without notifying the resident environmental scientist. 			during work		
Best Management Practices	LAdditional archaeological survey may be required it the project limits expand beyond the area reviewed		DOE	during work		
CONTACTS:						
Full Name	Title	Office Phone	Cell Phone	Email	Remarks	
Russell Sweet	Senior Biologist	(661) 859-9445	rsweet@ dudek.com	Russell.Sweet @water.ca.gov		
Jakob Schallberger	Engineer, WR		(209) 712-8529	Jakob.Schallberger @water.ca.gov		
Jennifer Worsley	Senior Environmental Scientist	(916) 902-7189	(916) 803-8315	Jennifer.Worsley @water.ca.gov		
Todd Percival	Senior Environmental Scientist	(916) 902-7817	(916) 899-0936	todd.percival @water.ca.gov		
Janine Beck	Environmental Scientist	(916) 902-7159		Janine.Beck @water.ca.gov		



MEMORANDUM

To: Todd Percival, DWR

From: Russell Sweet

Subject: Pyramid Dam Spillway Maintenance

Date: 03/06/2023

cc: Jennifer Worsley, DWR

Attachment(s): Photo Log

This purpose of this memo is to report the results of the environmental clearance sweep for the Pyramid Dam Spillway Maintenance Project (Project).

1 Project Description

Department of Water Resources Staff along with Contractor will conduct routine maintenance on the Pyramid Dam Spillway. All work will occur within the Pyramid Dam spillway footprint. The work is to include spall, delamination, crack, and joint sealant repairs and installation of wildlife exclusion device extension pipes on the right wall footing drainpipes.

Spall repairs will be repaired by pressure washing the concrete and patching the cleaned spall with repair concrete and by saw cutting to create a perimeter for concrete removal, then pressure jetting the concrete to remove unsound concrete to a depth where sound concrete is found or two inches below existing reinforcement. The exposed concrete will be saturated with water and patched with repair concrete.

Delamination repairs will be repaired by saw cutting to create a perimeter for concrete removal, then pressure jetting the concrete to remove unsound concrete to a depth where sound concrete is found or two inches below existing reinforcement. The exposed concrete will be saturated with water and patched with repair concrete.

Crack repairs will be repaired by pressure washing the cracks and then injecting flexible cement into the cracks. Joint sealant will be repaired by removing joint sealant with a box cutter, knifes, or other means. The joint opening will be sand blasted to remove surface laitance or remaining joint sealant. Joint sealant will then be applied to the cleaned joint.

Wildlife exclusion device extension pipes will be installed onto the existing drain outfall pipes on the right wall footings. The extension pipe will be inserted into the existing drainpipes. The pipe will extend 6 inches beyond the invert of the concrete to allow for visual confirmation of the outfalls seeping water.

Scaffolding may be placed to access the flip bucket at the bottom of the spillway. The scaffolding will cross Piru Creek and run to the left side of the flip bucket. Algae and organic growth may be removed by low pressure washing. Water will be collected in the flip bucket and be discharged onto the emergency spillway. The staging area at Pyramid Dam Spillway is located at the bottom left side of the spillway and at the top left of the spillway on the existing access road parking area. All haul routes and access to the sites will be through the existing dam roads. All work will be done within the DWR right-of-way.

2 Methods

Dudek conducted a literature review and subsequent focused surveys to determine the presence or absence of sensitive biological resources on the Project site, and suitability of the site for sensitive biological resources.

Prior to conducting fieldwork, Dudek reviewed the following literature and database sources to assess the potential for special-status biological resources, as well as wetland resources, to occur within the Project site and immediate vicinity:

- California Natural Diversity Database (CNDDB; CDFW 2023)
- U.S. Fish and Wildlife Service (USFWS) IPaC Trust Resources Report (USFWS 2023)
- California Native Plant Society (CNPS) Inventory or Rare and Endangered Plants (CNPS 2023)

Pedestrian surveys were conducted areas along the spillway and adjacent buffer area of 100-feet, where accessible, to identify potential environmental concerns including federally- and state- listed threatened and endangered plant and wildlife species, and other special status plant and wildlife species. Areas that were not accessible were visually scanned using binoculars. The survey was conducted by Dudek Senior Biologist, Russell Sweet, on March 6, 2023, from 1000-1210. Temperature was recorded from 45° to 47° Fahrenheit, with 80% cloud cover and winds ranging from 4 to 6 miles per hour. The biologist paid special attention to bird activity and behavior to identify any possible nesting activity within the spillway and adjacent buffer areas.

3 Results

No active nests were observed within the spillway. However, due to the colder conditions, it could not be certain no nests were present within the spillway weep holes. Spillway weep holes were not covered with wire mesh to keep birds from nesting and, the inside of the spouts could not clearly be seen. No nests were observed under the spillway crossing. All additional equipment around the spillway was surveyed for potential nests. None were observed.

The uplands surrounding the spillway are steep cliffsides or rock formations. All areas were visually scanned with binoculars to see if any nests or other biological resources that would have a constraint on the Project were present. The trees within Piru Creek were also visually scanned for any nests. No nests were observed.



4 Conclusions, Recommendations and Monitoring Activities

There are no environmental constraints to the Project. However, if the Project is to begin more than 30 days from the survey date, it is recommended that an additional survey be completed within the spillway to ensure there are no nesting birds within the spillway. See monitoring activities below.

Monitoring activities and restrictions proposed are as follows:

Because the Project is proposed to begin within the nesting bird season, February 1 through August 31, prior to construction, it is recommended that another nesting bird survey be conducted if the project does not commence within 30-days of this survey to ensure no nests occur or continue to occur within the Project area. Surveys should be phased to match initiation of ground-disturbing activities across the sites, such that no more than 10 days elapse between the survey and ground-disturbing activities. If a nest is identified during the nesting bird survey, a no-work buffer will be implemented by the biologist at a buffer distance suitable to prevent the abandonment or failure to the nest. A biological monitor will be present on-site during construction activities near a nest buffer. If the bird becomes agitated, in the opinion of the biological monitor, the no-work buffer will be increased. Periodic observations of nest progress will be conducted by the biological monitor. In the opinion of the biological monitor, if a nest has successfully fledged, or has failed through natural causes, the buffer will be removed, and work can commence without restrictions. The biological monitor will update the Project foreman as needed.

Project manager and staff present on site must ensure that no sediment or rock resulting from work activities enters the waterway. To avoid accidental entry of sediment/rock resulting from work activities into the waterway, it is recommended to install erosion control measures such as silt fencing or a comparable barrier along the along the spillway. If the potential for materials to end up in the waterway arises, Environmental staff must be informed immediately.

No trees, or vegetation shall be removed or damaged without notifying the resident environmental scientist. All vehicles and equipment will be adequately maintained to limit the possibility of leaks and/or spills of petroleum products or other hazardous materials. All fuel powered/holding equipment must have secondary containment. If any spills do occur, clean up must begin immediately. No vehicles or equipment shall be operated outside of the designated paved or unpaved roads, and vehicle speed limit shall not exceed 25mph within Project site and surrounding area. The Project site shall be kept clean of trash and food. All vehicles and heavy equipment shall be inspected for petroleum leaks daily and kept in good working condition.

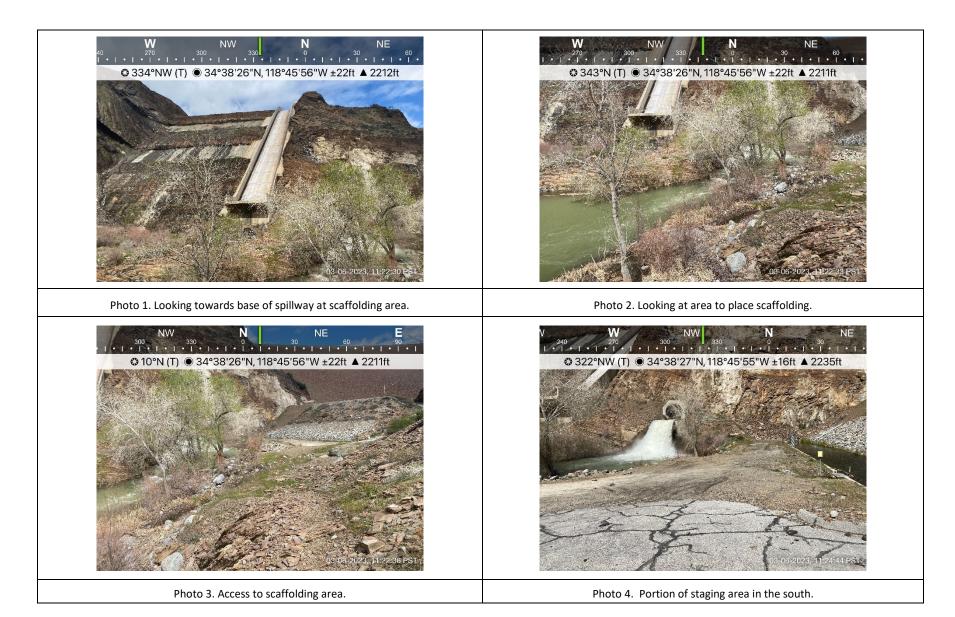
If you have any questions or require more information, please contact Russell Sweet at 661.859.9445 or by email at rsweet@dudek.com.

Sincerely,

Russell Sweet Senior Biologist



Attachment A Photo Log



Attachment A Photo Log

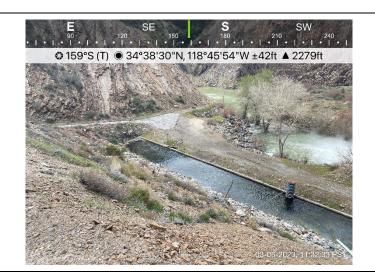


Photo 5. View of lower southern staging area.



Photo 7. Looking south down spillway.



Photo 6. View of staging area in south end.



Photo 8. Looking upstream along the spillway.

Greenhouse Gas Emissions Reduction Plan Consistency Determination For Projects Using Contractors or Other Outside Labor

This form is to be used by DWR Project Managers to document a CEQA project's consistency with the DWR Greenhouse Gas Emissions Reduction Plan (GGERP). This form is to be used only when DWR is the Lead Agency and when contractors or outside labor and equipment are used to implement the project.

Additional Guidance on filling out this form can be found at: https://cawater.sharepoint.com/teams/prog/icc/SitePages/ClimateActionPlan.aspx

The DWR Greenhouse Gas Emissions Reduction Plan can be accessed at: https://water.ca.gov/-/media/DWR-Website/Web-Pages/Programs/All-Programs/Climate-Change-Program/Climate-Action-Plan/Files/CAP-I-GGERP-Update-2020.pdf

Project Name:	Pyramid Dam Spillway Maintenance (OM-SFD-2023-004)
Environmental Document Type:	NOE
Project Manager's Name:	Sara Paiva-Lowry
Project Manager's E-mail:	Sara.Paiva-Lowry@water.ca.gov
Division:	Operations and Maintenance
Office, Branch, or Field Division:	Environmental Assessment Branch

Short Project Description:

Department of Water Resources Staff with Contractor will conduct routine maintenance on the Pyramid Dam Spillway. All work will occur within the Pyramid Dam Spillways and on the outside footing of the right wall. The will include spall, delamination, crack, and joint sealant repairs; installation of wildlife exclusion device extension pipes on the right wall footing drainpipes; hydro demolition and pressure washing to remove algae and organic growth. Staging and haul routes will be on existing disturbed areas and roadways. All work is within DWR right of way.

Project Greenhouse Gas (GHG) Emissions Summary:						
Total Construction Emissions 228.53 mtCO2e						
Maximum Annual Construction Emissions 228.53 mtCO2e (For construction lasting 12 months or less the total and maximum annual construction emissions will be the same)						
All other emissions from the project not accounted for above will occur as ongoing operational.						

All other emissions from the project not accounted for above will occur as ongoing operational, maintenance, or business activity emissions and therefore have already been accounted for and analyzed in the GGERP.

Extraordinary Construction Project Determination:						
•	Do total project construction emissions exceed 25,000 mtCO2e for the entire construction phase or exceed 12,500 mtCO2e in any single year of construction?					
☐ No – Additional analysis not required ☐	Yes – Project specific emissions mitigation measures have been included in the environmental analysis document for the project					

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Project GHG Reduction Plan Checklist:
All Project Level GHG Emissions Reduction Measures have been incorporated into the design or implementation plan for the project. (<u>Project Level GHG Emissions Reduction Measures</u>)
Or
All feasible Project Level GHG Emissions Reduction Measures have been incorporated into the design or implementation plan for the project and Measures not incorporated have been listed and determined not to apply to the proposed project (include as an attachment)
Project does not conflict with any of the Specific Action GHG Emissions Reduction Measures (Specific Action GHG Emissions Reduction Measures)
Would implementation of the project result in additional energy demands on the SWP system of 15 GWh/yr or greater? ☐ Yes ■ No
If you answered Yes, attach a letter documenting that the project has consulted with the DWR SWP Power and Risk Office regarding the additional power requirements of the project.
Is there substantial evidence that the effects of the proposed project may be cumulatively considerable notwithstanding the proposed project's compliance with the requirements of the DWR GHG Reduction Plan?
☐ Yes ■ No
If you answered Yes, the project is not eligible for streamlined analysis of GHG emissions using the DWR GHG Emissions Reduction Plan. (See CEQA Guidelines, section 15183.5, subdivision (b)(2).)
Project Manager Signature:Sava_Paiva_Lowry Date:3/8/2023
After the Project Manager has reviewed and signed above please use DocuSign to forward this form to the DWR Climate Change Program at ceqaclimatechange@water.ca.gov for final approval.
For DWR Climate Change Program Use Only: Based on the information provided above and information provided in associated environmental documentation completed pursuant to the above referenced project, the DWR Climate Change Program has determined that:
The entire proposed project is consistent with the DWR GGERP and the GHGs emitted by the project are covered by the plan's analysis.
□ The operational and maintenance phase of the project is consistent with the DWR GGERP and the GHGs emitted by the project are covered by the plan's analysis. Emissions from the construction phase of the project are not covered by the DWR GGERP and will be mitigated as part of the project.
Climate Change Program Approval Signature: Date:
Attachments:
☐ GHG Emissions Inventory ☐ List and Explanation of excluded Project level ☐ SWP Power and Risk Office GHG Emissions Reduction Measures Consultation Letter
Links: https://cawater.sharepoint.com/teams/prog/icc/SitePages/HomePage.aspx

https://water.ca.gov/Programs/All-Programs/Climate-Change-Program

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Pyramid Dam Spillway Maintenance (OM-SFD-2032-004)

- Inventory and Calculation of Greenhouse Gas Emissions -

Line	Emissions from Construction Equipment							
1	Type of Equipment	Maximum Number per Day	Total Operation Days	Total Operation Hours ¹	Fuel Consumption Per Hour ²	Total Fuel Consumption (gal. diesel)	CO ₂ e/gal diesel ³	Total CO ₂ Equivalent Emissions (metric tons)
2	Water Truck	1	20	6	12.50	1,500	0.010	15.59
3	Pressure Washer	2	20	6	12.50	3,000	0.010	31.17
4	2200 Watt generator	3	20	8	7.50	3,600	0.010	37.41
5	Sandblasting machine	1	20	6	7.50	900	0.010	9.35
6	Dump Truck	2	15	4	12.50	1,500	0.010	15.59
7	Delivery flatbed truck	2	15	6	15.00	2,700	0.010	28.06
8	Mobile Mixer	1	15	6	10.00	900	0.010	9.35
9	Pickup Work Truck	10	30	6	4.00	7,200	0.010	74.82
10		TOTAL				21,300		221.34

11 An 8-hour work day is assumed. Vehicles hours are weighted for use as needed.

12 California Air Resource Board Offroad 2007 Emissions Inventory fuel consumption factors

 $\overline{13}^3$ World Resources Institute-Mobile combustion CO_2 emissions tool, June 2003 Version 1.2

15	Emissions from Transportation of Construction Workforce							
16		Total Number of Workdays	Average Distance Travelled (round trip)	Total Miles Travelled	Average Passenger Vehicle Fuel Efficiency ⁴	Total Fuel Consumption (gal. gasoline)		Total CO ₂ Equivalent Emissions (metric tons)
17	10	30	50	15000	20.8	721.2	0.009	6.498

⁴ United States Environmental Protection Agency. 2008. Light-Duty Automotive Technology and Fuel Economy Trends:

18 1975 through 2008. [EPA420-R-08-015]

20	Emissions from Transportation of Construction Materials							
21	Trip Type	Total Number of Trips	Average Trip Distance	Total Miles Travelled	Average Semi- truck Fuel Efficiency	Total Fuel Consumption (gal. diesel)	CO ₂ e/gal Diesel ³	Total CO ₂ Equivalent Emissions (metric tons)
22	Delivery	5	50	250	7.5	33.33333333	0.010	0.346
23	Spoils	5	50	250	7.5	33.33333333	0.010	0.346
24	TOTAL					0.693		

26 Construction Electricity Emissions

27		MWh of electricity	-	CO ₂ e emissions
28	Electricity Needed	0	0.277	0.0000000

29 6 eGRID2010 Version 1.0 CAMX-WECC sub-region.

31 Total Construction Activity Emissions

Total Years of Construction
33 Expected Start Date of Construction

228.53 (from lines 25, 32, 39, and 43)
0.25

33 Expected Start Date of Construction 34

35Estimated Project Useful life20Years36Average Annual Total GHG Emissions228.53MT CO2 equivalents37Max. Year Construction GHG Emissions228.53MT CO2 equivalents

38 ⁷short-term construction emissions amortized over life of project

39 Emissions total from single year of construction when emissions peak (for multi-year construction projects)

40 41

14

NOTE: the Average Annual Total GHG Emissions is NOT the same value as the "Maximum Annual Emissions" (MAE) value that is required on the DWR GGERP Consistency Form form for Projects Using Outside Labor and Equipment; The MAE is calculated to ensure that the project does not emit more than 12,500 mtCO2e in any given year

June-23

Notice of Exemption

Form D

To: Office of Planning and Research P.O. Box 3044, Room 212	From: (Public Agency) Department of Water Resources Division of Operations and Maintenance				
Sacramento, CA 95812-3044	715 P Street, Sacramento CA 95814				
County Clerk County of	(Address)				
Project Title: Pyramid Dam Spillway Main	tenance (OM-SFD-2023-004)				
Project Location - Specific:					
Pyramid Lake. Pyramid Dam Spillway. Coordinates					
Cross Streets: Templin Hwy and Golden State Hwy Project Location – City: Castaic	Project Location – County: Los Angeles				
Description of Nature, Purpose and Beneficiaries of P	roject:				
Spillways and on the outside footing of the right wall. The wildlife exclusion device extension pipes on the right wall	will include spall, delamination, crack, and joint sealant repairs; installation of footing drainpipes; hydro demolition and pressure washing to remove algae and g disturbed areas and roadways. All work is within DWR right of way.				
Name of Public Agency Approving Project: D	epartment of Water Resources				
Name of Person or Agency Carrying Out Project:	Department of Water Resources				
Exempt Status: (check one) Ministerial (Sec. 21080(b)(1); 15268); Declared Emergency (Sec. 21080(b)(3); 15269(b) (Emergency Project (Sec. 21080(b)(4); 15269(b) (Emergency Exemption) (State type and section Statutory Exemptions). State code number:	(b)(c));				
routine maintenance activities. This project will not res	al services to many Californians. This project is exempt because it involves ult in impacts to special status species or habitat. The Categorical Exemption vity will be implemented without any environmental impacts.				
Lead Agency Contact Person: Sara Paiva-Lowry	Area Code/Telephone/Extension: (916) 902-7709				
If filed by applicant: 1. Attach certified document of exemption finding 2. Has a Notice of Exemption been filed by the process.					
Signature: Sara Paiva-lowry	Date: 3/8/2023 Title: Environmental Program Manager, DWR				
Signed by Lead Agency □ Signed by Applicant Date rece	ived for filing at OPR:				