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**RESOLUTION AUTHORIZING APPLICATION FOR THE 2022 INTEGRATED REGIONAL WATER MANAGEMENT IMPLEMENTATION GRANT ON BEHALF OF THE WESTSIDE-SAN JOAQUIN IRWM REGION IN THE SAN JOAQUIN RIVER FUNDING AREA AND EXECUTION OF AGREEMENT WITH THE CALIFORNIA DEPARTMENT OF WATER RESOURCES**

**WHEREAS**, Del Puerto Water District (District) has been actively involved in the Westside-San Joaquin Integrated Regional Water Management (IRWM) planning effort; and

**WHEREAS**, the District adopted the Westside-San Joaquin IRWM Plan Update in February 20, 2019; and

**WHEREAS**, the District received an IRWM grant from the California Department of Water Resources through the Proposition 1, Round 1 solicitation for the North Valley Regional Recycled Water Program; and

**WHEREAS**, the District submitted the Del Puerto Canyon Reservoir Project for inclusion in the IRWM Plan and the project met the goals and objectives of the Plan; and

**WHEREAS**, through the Westside-San Joaquin Region's project selection process for the Proposition 1, Round 2 implementation grant application, it was determined that the District's Del Puerto Canyon Reservoir Project would be the project included in the Region's application within the San Joaquin River Funding Area; and

**WHEREAS**, the District would prepare and submit the Grant Application for the Del Puerto Canyon Reservoir Project to request \$955,000 in grant funding from the California Department of Water Resources; and

**WHEREAS**, General Manager Anthea Hansen will serve as the Grant Program Manager for purposes of the Grant Application and any grant awarded pursuant to the Application; and

**WHEREAS**, the District will engage consultants to prepare and submit the Grant Application; and

**WHEREAS**, authorizing (1) preparation and filing of the Grant Application and (2) all steps that are reasonably convenient or necessary to receive the grant, do not constitute a project or projects under CEQA because the proposed actions represent administrative activities of Del Puerto Water District that will not result in direct or indirect physical changes in the environment (Section 15378(b)(5) of the CEQA Guidelines); further, where it can be seen with certainty that there is no possibility that the proposed action in question may have a significant effect on the environment, the proposed action is not subject to CEQA (Section 15061(b)(3) of the CEQA Guidelines); further, should any grant be awarded, the Participants shall be responsible to conduct CEQA reviews for their respective projects.

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**NOW, THEREFOR BE IT RESOLVED, BY THE DEL PUERTO WATER DISTRICT BOARD OF DIRECTORS AS FOLLOWS:**

Section 1. The facts stated in the recitals above are true and correct, and the Board so finds and determines.

Section 2. The Board hereby approves submittal to the California Department of Water Resources to obtain a Round 2 Integrated Regional Water Management Implementation Grant pursuant to the Water Quality, Supply, and Infrastructure Improvement Act of 2014 (Water Code Section 79700 et seq.), and to enter into an agreement to receive a grant for the Del Puerto Canyon Reservoir Project.

Section 3. The General Manager of Del Puerto Water District or her designee is hereby authorized and directed to prepare the necessary data, conduct investigations, and execute a grant agreement or any amendments thereto with California Department of Water Resources.

PASSED this 17<sup>th</sup> day of August 2022 by the following vote:

AYES:  
NAYS:  
ABSTAIN:  
ABSENT:

\_\_\_\_\_  
Chairman

\*\*\*\*\*

Attest:

\_\_\_\_\_  
Secretary

\_\_\_\_\_  
Date:

## PROJECT 1: Reservoir Decision Support Tool

**IMPLEMENTING AGENCY:** Del Puerto Water District

Is this a Disadvantaged Community Project?  Yes  No

DAC/EDA Benefit Level: 75% - 100%

**PROJECT DESCRIPTION:** The primary purpose of the Del Puerto Canyon Reservoir (DPCR) project is to develop south-of-Delta water storage for the Project Partners: Del Puerto Water District (DPWD, the grantee and local project sponsor) and the San Joaquin River Exchange Contractors Water Authority (SJRECWA). The Partners desire to develop additional, locally controlled storage due to the volatility of their water supply and to lessen risks associated with storing water in San Luis Reservoir (SLR). The DPCR project would deliver water from the DeltaMendota Canal (DMC) to the new Del Puerto Canyon Reservoir, where it would be stored and released on a carefully managed basis to the benefit of the Partners and south-of-Delta wildlife refuges. The reservoir would allow water to be delivered to storage during wet years until it is needed in dry years resulting in improved water supply reliability and operational flexibility.

The DPCR project includes construction of a main dam, two saddle dams, a spillway, inlet/outlet works, conveyance facilities (including a diversion facility on the DMC, a pumping plant, underground pipeline and energy dissipation facilities at the DMC outfall, along with related appurtenant components) and electrical facilities (power supply line and electrical substation). The DPCR project would provide approximately 82,000 acre-feet (AF) of new off-stream storage to the project partners and provide the following benefits:

- **Additional water storage for agriculture:** Agriculture is a strong component of the Westside-San Joaquin Region's economy. The additional storage and reliability of supply also helps to restore and sustain groundwater for groundwater-reliant communities including Dos Palos, Firebaugh, Grayson, Gustine, Los Banos, Mendota, Newman, Patterson, and Westley many of which are characterized as disadvantaged communities (DACs).
- **Increased supply availability for South-of-Delta wildlife refuges and natural watershed function:** The Partners would have greater ability to manage flood flows and allow for habitat and fisheries improvements and groundwater recharge along a riparian corridor east of Interstate 5. The Kern and San Luis National Wildlife Refuges; Los Banos, Mendota, North Grasslands, and Volta Wildlife Areas; and Grassland Resource Conservation District would all benefit from more reliable flows as they currently lack adequate water for habitat and food production. These wildlife refuges support a rich array of birds, animal species, and plant life.
- **Flood risk reduction through increased stormwater capture:** Del Puerto Creek is prone to flooding portions of the City of Patterson and other adjacent lands when runoff occurs during high rainfall events. The DPCR project would allow the Partners to capture and store flood flows providing increased flood protection.

Various preliminary planning efforts have been completed for the DPCR project including the completion of a Feasibility Assessment (AECOM, 2016), Economic Feasibility (WestWater Research, 2018), Draft Environmental Impact Report (EIR) (DPWD, 2019), Final EIR (DPWD, 2020), and a Feasibility Report to assess environmental, technical, economic, and financial feasibility (Woodard & Curran, 2020). The Feasibility Report was submitted to and approved by the U.S. Bureau of Reclamation (Reclamation). Reclamation, as the federal lead agency, is currently preparing an Environmental Impact Statement (EIS), a draft of which is expected in late 2022.

The 2020 Feasibility Report analyzed the technical, environmental, economic, and financial feasibility for the DPCR project. Technical feasibility was assessed through engineering, operations, and constructability analyses verifying the DPCR project is physically and technically possible to construct, operate, and maintain. The Del Puerto Canyon reservoir site was selected as the top ranked site based on a screening, analysis, and ranking process using sites identified in the Alternative South-of-Delta Offstream Reservoir

Reconnaissance Study (DWR, 1996). The alternatives analysis used capacity surface area ratio, capacity to dam embankment volume, capacity to dam height, and distance to DMC as criteria and each site was ranked for each criteria, resulting in Del Puerto Canyon being confirmed as the top site. The Feasibility Assessment (AECOM, 2016) reviewed three potential dam locations in the Del Puerto Canyon area. An Independent Technical Review was held in November 2019 and a subsequent Design, Estimating, Construction (DEC) Review was held in April 2020. Reclamation provided a Joint Resolution memorandum acknowledging technical feasibility on August 10, 2020. The Partners also conducted a robust outreach plan to local landowners, local organizations, and other agencies to share information about the project and hear feedback on project plans. The Feasibility Report determined that there is a compelling need for the project and that the project plan was technically, environmentally, economically, and financially feasible. The next step for DPCR project development is to refine site specifics including location of the reservoir in the Del Puerto Canyon site, main dam and saddle dam designs, conveyance design to and from the DMC, Del Puerto Canyon Road relocation, and relocation of utilities. Further geotechnical evaluation and data is required to be able to site and complete designs for the DPCR, which will be provided by the Reservoir Decision Support Tool (DST).

The Reservoir DST includes the development of a methodology and process tool for siting the dams in the Del Puerto Canyon. The DST can provide guidance to and be used as a process tool by other agencies for design of earthen embankments and appurtenant structures. DPWD retained TERRA/GeoPentech (TGP) to design the earthen dams and appurtenant structures for the DPCR project. The Reservoir DST will be generated through the development of the Geotechnical Data Report (GDR) and the Geotechnical Interpretive Report (GIR). TGP will first compile a comprehensive list of data necessary to support design of the earthen embankments and appurtenant structures and a comprehensive plan for the data collection and laboratory testing. The comprehensive plan will be reviewed and approved by the Division of Safety of Dams (DSOD). TGP will then conduct geotechnical explorations which include test borings, cone penetrometer tests, test pits, and test trenches. TGP will also conduct geologic field mapping to document geologic and geomorphic conditions within the project area that affect design of facilities. Samples of soil and rock recovered from test borings, test pits, and test trenches will be tested by TGP in the laboratory for physical and index properties and engineering properties to develop parameters for use in the design engineering analyses. With the results of the geotechnical explorations, geological investigation, and geotechnical laboratory testing program, TGP will prepare the GDR. TGP will conduct geological and geotechnical characterizations including fault and landslide hazards, a ground motion study, and geotechnical conditions. These studies will be used to prepare the GIR, which will describe the purpose, scope, and approach of the studies and will document the results and their implications for the design of earthen embankments and appurtenant structures. DSOD will review and provide comments on the GDR and GIR. The GDR and GIR are critical elements of information required for design and will provide all the necessary information for the DPCR to proceed. The final deliverables that make up the Reservoir DST are the Project Geotechnical Data Collection and Laboratory Testing Plan, GDR, and GIR. These will be shared and discussed with DSOD. These documents will also be shared with partnering agencies, including those involved with Del Puerto Canyon Road relocation and relocation of utilities. The documents will also be available to other interested parties through the Partners.

## **Budget Category (a): Project Administration**

### Task 1: Agreement Administration

The Grantee will respond to DWR's reporting and compliance requirements associated with the grant administration and will coordinate with the project managers responsible for implementing the projects contained in this agreement.

### Task 2: Project Management

Manage Grant Agreement including compliance with grant requirements, and preparation and submission of supporting grant documents and coordination with IRWM regional manager. Prepare and compile invoices including relevant supporting documentation into a DWR Invoice Packet for submittal to DWR. This task also includes administrative responsibilities associated with the project such as coordinating with partnering agencies and managing consultants/contractors.

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**Deliverables:**

- Quarterly Invoices and associated backup documentation

Task 3: Reporting

Prepare progress reports detailing work completed during reporting period as outlined in Exhibit F of this Agreement. Submit reports to DWR.

Prepare Project Completion Report and submit to DWR no later than 90 days after project completion for DWR Project Manager's comment and review. The report shall be prepared and presented in accordance with guidance as outlined in Exhibit F. The Grantee will also prepare the grant completion report.

Reports will meet generally accepted professional standards for technical reporting and the requirements terms of the contract with DWR outlined in Exhibit F of this Agreement.

**Deliverables:**

- Quarterly Project Progress Reports
- Project Completion Report
- Grant Completion Report

**Budget Category (b): Land Purchase/Easement**

Task 4: Land Purchase

Not applicable. No land purchase or easements are required for the Reservoir DST.

**Budget Category (c): Planning/Design/Engineering/Environmental Documentation**

Task 5: Feasibility Studies

Project Feasibility Studies were completed as part of the project development process. A Feasibility Report was prepared for the Del Puerto Canyon Reservoir in November 2020.

**Deliverables:**

- Relevant Feasibility Studies

Task 6: CEQA Documentation

Not applicable. The Reservoir DST does not qualify as a project under CEQA guidelines and does not require CEQA documentation.

**Deliverables:**

- None

Task 7: Permitting

Not applicable. Permits are not required to complete the Reservoir DST.

**Deliverables:**

- None

Task 8: Design

The Grantee will compile a list of data necessary to support design of earthen embankments and appurtenant structures. The Grantee will also prepare a Department of Safety of Dams (DSOD) approved plan for data collection and lab testing. Following the collection of all necessary data, the Grantee will

prepare a Geotechnical Data Report (GDR) which will describe the purpose, scope, and implementation of the field exploration and summarize lab testing results.

**Deliverables:**

- Compiled data list
- DSOD-approved Data Collection and Lab Testing Plan
- Geotechnical Data Report

Task 9: Project Monitoring Plan

Not applicable. A Project Monitoring Plan will not be required for this project since it is a DST.

**Deliverables:**

- None

**Budget Category (d): Construction/Implementation**

Task 10: Contract Services

This task must comply with the Standard Condition D.11 – Competitive Bidding and Procurements. Activities necessary to secure a consultant and award the contract, including the request for proposal (RFP) process, selection of the consultant, award of contract, and issuance of notice to proceed. Del Puerto Water District solicited bids for the geotechnical and design work and contracted with TERRA-GeoPentech in April 2022 to complete the work.

**Deliverables:**

- RFP Documents
- Executed Contract

Task 11: Construction Administration

This task includes managing the consultant. Del Puerto Water District contracted with Woodard & Curran to provide program management services for the Project.

**Deliverables:**

- None

Task 12: Construction/Implementation Activities

Because the Reservoir DST does not include construction, activities related to mobilization, demobilization, site preparation, and installation/construction/excavation are not required. Implementation activities related to the DST include preparing a Geotechnical Interpretive Report (GIR).

Using the GDR, the Grantee will prepare a GIR which will document the studies completed, describe the purpose, scope, and approach of the studies, and document the results and implications for design. The GIR will be reviewed and approved by the DSOD. The GDR and GIR can be utilized by other agencies as plans for geotechnical guidance and methodology for the design of earthen embankments and appurtenant structures.

**Deliverables:**

- Geotechnical Interpretive Report

**PROJECT 1: Reservoir Decision Support Tool (DST)**

Implementing Agency: Del Puerto Water District

<b>BUDGET CATEGORY</b>	<b>Grant Amount</b>	<b>Required Cost Share: Non-State Fund Source*</b>	<b>Other Cost Share**</b>	<b>Total Cost</b>
<b>(a) Project Administration</b>	<b>\$47,750</b>	<b>\$0</b>	<b>\$0</b>	<b>\$47,750</b>
Task 1: Agreement Administration	\$5,000	\$0	\$0	\$5,000
Task 2: Project Management	\$21,125	\$0	\$0	\$21,125
Task 3: Reporting	\$21,125	\$0	\$0	\$21,125
<b>(b) Land Purchase / Easement</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
Task 4: Land Purchase	\$0	\$0	\$0	\$0
<b>(c) Planning / Design / Engineering / Environmental Documentation</b>	<b>\$654,767</b>	<b>\$0</b>	<b>\$522,200</b>	<b>\$1,176,967</b>
Task 5: Feasibility Studies	\$0	\$0	\$100,000	\$100,000
Task 6: CEQA Documentation	\$0	\$0	\$0	\$0
Task 7: Permitting	\$0	\$0	\$0	\$0
Task 8: Design	\$654,767	\$0	\$422,200	\$1,076,967
Task 9: Project Monitoring Plan	\$0	\$0	\$0	\$0
<b>(d) Construction / Implementation</b>	<b>\$252,483</b>	<b>\$0</b>	<b>\$561,793</b>	<b>\$814,276</b>
Task 10: Contract Services	\$0	\$0	\$150,000	\$150,000
Task 11: Construction Administration	\$0	\$0	\$411,793	\$411,793
Task 12: Construction/Implementation Activities	\$252,483	\$0	\$0	\$252,483
<b>TOTAL COSTS</b>	<b>\$955,000</b>	<b>\$0</b>	<b>\$1,083,993</b>	<b>\$2,038,993</b>

**NOTES:**

Eligible costs for each Budget Category will only be approved for reimbursement and Cost Share for the work completed within the date ranges listed in Exhibit C.

\*\*The Del Puerto Water District will be contributing \$1,083,993 from its USBR WIIN Act Appropriations as Other Cost Share Funding for this project.

**Project 1: Reservoir Decision Support Tool**

<b>Categories</b>	<b>Start Date</b>	<b>End Date</b>
<b>(a) Project Administration</b>	<b>2/19/2023</b>	<b>1/6/2027</b>
Task 1: Agreement Administration	2/19/2023	5/19/2023
Task 2: Project Management	2/19/2023	1/6/2027
Task 3: Reporting	2/19/2023	1/6/2027
<b>(b) Land Purchase / Easement</b>	<b>N/A</b>	<b>N/A</b>
Task 4: Land Purchase	N/A	N/A
<b>(c) Planning/ Design / Engineering / Environmental Documentation</b>	<b>9/1/2015</b>	<b>1/4/2024</b>
Task 5: Feasibility Studies	9/1/2015	12/31/2020
Task 6: CEQA Documentation	N/A	N/A
Task 7: Permitting	N/A	N/A
Task 8: Design	4/26/2022	1/4/2024
Task 9: Project Monitoring Plan	N/A	N/A
<b>(d) Construction/ Implementation</b>	<b>12/3/2020*</b>	<b>10/6/2026</b>
Task 10: Contract Services	12/3/2020	4/26/2022
Task 11: Construction Administration	12/3/2020	10/6/2026
Task 12: Construction/Implementation Activities	1/5/2024	10/6/2026

\*There is an overlap between Category (c) and Category (d) because contract services began prior to the Geotechnical Data Report included in Task 8: Design.

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