



July 14, 2022

To: Pablo Arroyave, Chief Operating Officer

From: Bob Martin, Facilities O&M Director

Subject: O&M Report for June 2022

### **Operations Department**

The C.W. "Bill" Jones Pumping Plant (JPP) operated with 1 unit throughout June. The average rate of pumping for the JPP was 911 cfs through June.

Total pumping at the JPP for June was 54,198 acre-feet. The O'Neill Pump/Generating Plant (OPP) generated 16,527 acre-feet, and pumped 7,595 acre-feet in June. 0 acre-feet was pumped at the Delta-Mendota Canal/California Aqueduct Intertie Plant (DCI) and 0 acre-feet was reversed from the California Aqueduct to the DMC for June.

The Federal share in the San Luis Reservoir at the end of June was 255,671 acre-feet as compared to 132,481 acre-feet for June, 2021.

For the month of June, releases from Friant Dam ranged from 1,704 to 814 cfs with 64,433 AF entering the Mendota Pool. Flows past the Mendota Dam for the San Joaquin River Restoration Program (SJRRP) were 0 AF for June.

Canal Operations staff performed open channel and closed-pipe flow measurements, routine patrols, bi-weekly meter readings, water samples, well soundings, meter calibration, and meter maintenance during the month (including moss removal). Coordinated flow testing was also conducted with the USBR at the San Joaquin River Bifurcation Structure and with the City of Turlock at the North Valley Regional Recycled Water Project discharge facility on the DMC at Milepost 37.33.

Control Operations switching/clearance placements performed this month:

- C-22-JP-19 JPP Unit 4 Annual Maintenance / Rewind
- C-22-ON-26 OPP Unit 6 Annual Maintenance
- C-22-JP-28A JPP Unit 3 Annual Maintenance
- C-22-JP-18B JPP Unit 3 & 4 Discharge Tube
- C-22-JP-19D JPP Unit 4 Rewind
- C-22-JP-33 JPP Unit 2 Field Breaker troubleshoot
- C-22-ON-34 OPP Unit 4 control shaft repair
- C-22-ON-35 OPP Unit 4 distributor control shaft

## **Civil Maintenance Department**

The Civil Maintenance crews worked on the following projects this month:

- Grading of DMC operating roads
- OPP Unit 6 support and rescue team standby
- DMC erosion repairs
- Garbage collection on DMC and Wasteways
- Chemical and mechanical weed control on DMC and SLD
- Maintenance and repairs to float lines, signs, fences, guard rails and gates
- Transportation of OPP Unit 4 actuator rod
- Pump Back Project equipment removal and pump and motor transportation
- Fabricate and install handrails along the DMC
- DMC minor line repair at MP 22.15-L
- Control Room remodel support
- Clean drain inlets along the DMC
- Installed new staff gauge measuring device at the 10 foot gate (GWD)
- Performed PM's on the 10 foot gate
- Boom truck annual PM's and inspections
- CPR training
- DMC flow meter and turnout moss cleaning
- LBAO minor building maintenance
- Landscaping performed at USBR Tracy office
- Contractor support for JPP center tube grout repair
- Control Building SCADA room office Improvements

## **Plant Maintenance Department**

The Plant Maintenance crews worked on the following projects this month:

### **Electrical/C&I Staff:**

- JPP Unit 4 rewind/relay testing
- JPP Unit 3 annual maintenance
- TFO lighting
- TFO arc flash breaker replacement
- DMC PM's performed on Checks 1-12
- OPP Unit 6 annual maintenance
- JPP HVAC repairs
- DMC flow meter recalibration
- OPP Unit 6 annual maintenance & speed head re-assembly
- Control Building SCADA room office Improvements
- Installed new enable relay at Check 19
- Re-established communication with electronic flow meter at MP 107.85
- New program installation on the Pigeon Roost alarm panel

### **Mechanical Staff:**

- JPP Unit 4 rewind support
- JPP Unit 4 component painting
- JPP Unit 3 annual maintenance
- JPP PM's
- OPP Unit 4 actuator rod
- OPP Unit 4 repairs & re-assembly
- OPP Unit 6 annual maintenance

- OPP Unit 6 alignment meeting
- HazMat storage building inspections
- JPP crane inspections and PM's
- JPP Unit 5 wheel pit pump switch replacement
- JPP facility painting
- DMC Volta East Well mechanical seal investigation
- Sandblast building PM's and minor repairs

### **USBR Support Services**

Water Authority crews performed the following work at USBR facilities this month:

- TFF deflector boom inspections and repair planning
- VC flapper valve inspection

### **Engineering Department**

The Engineering staff worked on the following O&M projects this month:

- JPP Penstock 2 (Center) epoxy Injection/ crack repair in outlet box
- JU-2 start sequence troubleshooting
- TFO breaker modifications per JPP Arc Flash 2018
- OPP Unit 1 enclosure tube repair
- OPP Unit 3 breaker charging coil repair
- OPP Unit 4 distributor leak repair
- OPP Unit 6 electro-mechanical relay tests
- JPP purchase spare shaft sleeve (Special Project)
- TSY UZ11A switchgear building repairs
- TSY UZ11A Basler relay setting updates and tests
- DMC seepage monitoring @ MP 20.15-L
- Data management of well readings and creation of Warren Act hydrographs
- O&M PM setup and asset management in NetSuite
- DCI U3 & U4 SCADA development for pump additions
- DCI as-built drawing updates
- Distribution of updated system operation drawings

### **2022 DMC Pump Back Project**

- Worked on compiling comprehensive set of plans for 2022 installation

### **Land Management Activity Summary**

The Engineering staff issued two (2) access permits this month:

- Access permit P2302010 was issued to Del Puerto Water District to repair the existing pipeline located at Milepost 18.05-R.
- Access permit P2302011 was issued to Panoche Water District to repair the existing underground pipeline located at Milepost 92.73-R on the Delta-Mendota Canal.

The Engineering staff were involved with the following land management projects this month:

- Coordination meeting with the City of Tracy on development
- Development of Land Management requirements for adjacent developments
- Orestimba Creek Recharge Project
- Tracy HOM Project, Tracy CA
- Costco Annexation Project, Tracy, CA

- Tracy Hills Commerce Center, Tracy, CA
- Tracy Hills Phase 5 development review
- Schulte Warehouse Annexation, Tracy, CA
- City of Patterson – Roger Road developments & Baldwin Ranch comments
- International Parkway Bridge Replacement, PROLOGIS -Tracy, CA – Prepared 2<sup>nd</sup> plan review and provided comments. Came to an agreement on proposed access road alignments.
- Santa Nella County WD pipeline crossing review

### **Safety Department**

The Safety Department worked on the following items this month:

- Provided Job Hazard Analysis support for the crews
- Conduct Weekly Safety Tailgate talks with Maintenance and Operations crews
- Sent out Weekly Safety Tailgate Topics to include 6-1 Lock Out/Tag Out, 6-2 When to Call 911, 6-3 First Aid for Chemical Burns, 6-4 Fire Extinguishers
- Provided Safety Message for June 2022 Monthly Newsletter – 6/2022 Ergonomics Overview
- Conduct CPR/AED/First Aid training for new hires
- Provided Confined Space Rescue Standby for entry into JPP Penstock
- Provide Safety Orientation for new hire: Rebecca Harms

### **Procurement and Work & Asset Management Department**

The Work & Asset Management Department worked on the following items this month:

- Continued work on finalizing inventory reports for end of FY22. All inventory was corrected and final reports sent to appropriate departments
- Continued training new Warehouse Inventory Control Clerk and Buyer
- Finalized all outstanding FY22 items including invoices
- Contracts/PO Agreements/LOA's Status Update:
  - F22-OPP-059 - OPP Main Transformer Rehabilitation. Proposals received June 9 and now in evaluation stage
  - F22-JPP-007 – JPP Discharge Tube Repair. Contract executed 6/17, \$54,461.28
  - F22-JPP-003 – JPP Geotech Sampling. Agreement for \$22,000 received and signed by vendor and will be executed upon collection of final signatures
  - F22-JPP-071- DMC Flowmeter Replacement - Board approved single source on 2/10. Contract executed 4/14. Project is ongoing and waiting for material
  - F22-AB-070 - RFP prepared for Investment Advisory Services. Still pending. Executives/Procurement have been finalizing RFP. Anticipated release date TBD.
  - F23-TFO-006 Landscape Maintenance - Released RFQ to multiple vendors for 3 year (+ two 1-year options to renew) agreement. Received one quote/bid with extremely higher pricing and will be evaluating prevailing wage requirements with legal for possible re-solicit. Release of new RFQ is anticipated in July.
  - Issued PO for \$6500 for Server Room AC replacement and work is complete

### Ongoing:

- Purchasing in support of the O&M crews, and maintaining/replenishing warehouse stock. Purchasing to support DMC Pump Back Project currently underway
- Warehouse receiving, stocking, and distribution
- Invoicing/vendor bills/vendor credits processing
- Janitorial cleaning & disinfecting per COVID-19 guidelines
- Contract Management/Administration activities, including bi-weekly contract update meetings with engineering staff
- Developing/implementing purchasing/procurement and asset/inventory procedures/boilerplate templates
- Bi-weekly WAM staff meetings to discuss updates/issues
- Contract invoice payment reviews, invoice disputes as needed, invoice payments
- Continuous testing for improvements to procedures in NetSuite, as well as ongoing issues related to NetSuite constraints
- Development of Blanket Contracts and Blanket Purchase Orders/Agreements
- Reviewing/closing out old/open PO's in NetSuite

### Information Technology Department

The Information Technology Department worked on the following items this month:

- NetSuite
  - User and administration
  - Bi-Weekly Implementation Team meetings
- Assisted with monthly FAC, WRC and BOD meetings with Zoom
- Desktop support calls.
- Planning server refresh
- Planning laptop refresh
- Planning upgrading/replacing copiers
- Monitor Symantec anti-virus management console
- Security updates on servers
- Monitor firewall
- Update additional AV security settings
- Multi Factor Authentication vendor SurePass
- Follow-up meeting with Active Directory threat defense vendor
- Initial meeting with Protective DNS vendor
- 2nd Draft of Cyber Security Incidence Response Plan
- First draft Disaster Recovery Plan
- First draft Business Continuity Plan
- Developed Cyber Security Purchase requirements list. IT and SCADA
- Avaya vendor upgrade of firmware on phone switches "completed"
- New phones for SAC office Avaya – to be installed
- First Net deploying iPhones and iPad SIMS
- Created profile for new Tracy Mechanic
- Continued mass hard drive data destruction to DOD standards for e-cycle process
- MDM IBM (MAAS360) training
- Became member of InfraGard – FBI Cyber Security group.
- Cyber Security training and webinars

- WAM servers, prepping for redeployment
- Met with Reclamation OT Cyber Security
- Ordered Surface, configured and deployed for new Deputy Council
- Prepared e-cycle for warehouse staff
- Restarted server room after AC failure caused overheating on 6-26-22
- Met with Dartrace, an active AI network Cyber Security monitor program

## **HR Department**

The Human Resources Department worked on the following items this month:

### **General Administrative Activities:**

- Recruitments:
  - Mechanical (Plant) Engineer, Tracy (continued recruitment)
  - Hydro Electric Electrician, Tracy (continued recruitment)
    - C&I Technician, O'Neill (candidate selected)
- Interviews:
  - Special Programs Manager, Sacramento (interviews conducted)
  - Hydro Tech II, Tracy (interviews scheduled)
- Background checks for PIV cards (continuing)
- New Hire Orientations

### **Trainings:**

- Remain up to date with COVID-19 compliance
  - Corona Virus 101 Training (new hires)
- Cyber Security training (all staff)
- Sexual Harassment Prevention training (all staff)
- Defensive Driving training (all staff)

### **Government Reporting:**

- Merced County Public Health COVID reporting (as needed)
- Alameda County Public Health COVID reporting (as needed)

### **Ongoing:**

- COVID protocols
- FMLA notices/follow ups
- COBRA notices/follow ups
- Worker's Comp follow ups
- Monthly safety points distribution
- Health benefits eligibility/employee assistance
- Maintain OSHA logs for calendar year
- PIV cards (USBR)
- Wellness program

## **EXTRAORDINARY O&M & CAPITAL PROJECTS**

### **DELTA-MENDOTA CANAL (DMC)**

#### **Bridge Abutment Repair at MP 92.73 (FY21)**

Status: The abutment repair is on hold until PG&E relocates the pipeline. The 6-inch pipe owned by PG&E that crosses under the bridge, adjacent to the abutment, is the main transmission line for the City of Dos Palos. All parties have agreed that it would be a safety hazard to conduct work with the gas line in place, and PG&E is currently planning to remove the existing pipeline from the bridge and HDD install a new pipeline under the canal. PG&E has prepared 90% plans and issued for final review with final plans anticipated to be ready for construction in the late summer to fall timeframe. PG&E, SLDMWA, and Reclamation are meeting monthly to keep the project moving forward.

#### **DMC Subsidence Correction Project**

Status: SLDMWA is working closely with Reclamation to complete the tasks identified in the Financial Assistance Agreement that was executed on 9/24/2021 after acquiring Board approval. Phase 1 Geotechnical work was completed last year. CDM Smith was awarded the \$2.4M contract to complete the Feasibility Study, with the Notice to Proceed issued on February 10, 2022. The Feasibility Report is expected to be completed in approximately one year, with certain environmental permitting extending longer if needed. The Final Draft Report is scheduled to be completed 3/6/2023. CDM's consultant has completed the draft CalSim modeling, and they are currently working on economic benefits. Cultural Resource surveys have been completed. The non-structural alternative has been drafted and is under review. Current activities consist of preparation of the Plan Formulation of Alternatives Technical Memorandum, which will identify which alternatives will be carried forward for further Study. The Reclamation led DEC Review is scheduled for the week of August 15<sup>th</sup>, with a site visit scheduled for August 10<sup>th</sup>. SLDMWA has coordinated with USBR on a cost estimate for non-contract costs that will inform the DEC Review team.

The DWR Funding agreement was executed in April for \$3.3M to partially fund Final Design, which includes the future phases of the Geotechnical Investigation.

The SLDMWA continues to provide support to Reclamation as they manage the construction contract with Unico Services to install the two additional pumps at the DMC/CA Intertie Pumping Plant (DCI). The completion of the project has been delayed due to supply chain issues. Unico demobilized and is currently working to procure a capacitor and 2 combination air valves critical to completion. The project is now estimated to be completed by late Summer/ early Fall.

#### **DMC Turnout Flowmeter Upgrade Program – Phase 2 (FY22)**

Status: SLDMWA is in contract with McCrometer for the purchase of 62 Water Specialty flowmeters equipped with telemetry through the SLDMWA single-source procedure. The contract was executed after the January 2022 Board meeting. 29 flowmeters have been delivered and are currently being installed. No

## **EXTRAORDINARY O&M & CAPITAL PROJECTS**

flowmeters delivered this month. Next expected delivery will be within first week of July 2022. Final delivery of meters is expected in Fall 2022.

### **DMC Turnout Flowmeter Upgrade Program – Phase 3**

Status: No activity this month. Engineering staff is coordinating with Water Operations for the design data for the flowmeters required with this phase. These measurements will be supplied to McCrometer in order to obtain a final quote and a single-source contract will be pursued. Contract is expected to be executed in Fall 2022.

### **C.W. “BILL” JONES PUMPING PLANT (JPP)**

#### **JPP Excitation System & Control Modernization (FY18)**

Status: SLDMWA is currently in contract with Reclamation through a Letter of Agreement. Reclamation will be providing the Technical Specifications, along with an Engineer’s Estimate. The 60% design is currently being peer reviewed by USBR Denver Office (TSC). SLDMWA and USBR reviewed the following: general equipment layout for the excitation cabinets and transformers, CT and PT three-line diagrams to be referenced, and design status of the unit controls. The 90% plans and estimate is scheduled for completion in September.

#### **JPP Wear Ring Purchase (FY22)**

Status: No activity this month.

#### **JPP Unit No. 4 Rewind**

Status: The project is underway and on schedule. The surge rings and ring bus have been installed. Installation of the new stator coils has started. The rotor poles are currently in Texas at the NEC factory being overhauled, approximately half have been completed and the rest should be done on schedule. The second progress payment will be submitted to SLDMWA the first week of July.

#### **JPP Unit No. 3 Rewind**

Status: The initial 40% payment to NEC has been made, and SLDMWA has been reimbursed by USBR for the payment. This allows NEC to purchase the materials to manufacture the stator laminations.

#### **TSY Switchgear Building UZ11A Repairs (Unplanned Project)**

Status: A ground fault incident that damaged the main feeder switchgear and bushing box in switchgear building UZ11A occurred in October 2021. SLDMWA electricians have made partial repairs and investigations have been performed by Reclamation’s TSC and Powell (Powell is the company that designed and built the switchgear building). Building UZ11A is currently energized via adjacent switchgear building UZ8A. The contract for Powell to provide the repairs and replacement has been executed. TSC reviewed and approved submittals for long lead items. All long lead items have been ordered by Powell. At the request of Powell, SLDMWA and Reclamation reviewed and approved an alternative for



## **EXTRAORDINARY O&M & CAPITAL PROJECTS**

surge arresters due to the long lead time on the original surge arrester. The outage request for September 7 to 28 has been sent to WAPA and CVO.

### **JPP Concrete Slab by Trashrake Dumpster (FY23)**

Status: Project is currently in the planning and design phase. A geotechnical investigation is being pursued to characterize the subgrade to ensure an optimum design is implemented for the project. SLDMWA will be contracting with Terracon for the geotechnical investigation of the site to provide pavement and subgrade design. Construction is tentatively scheduled to occur in Spring 2023.

### **O'NEILL PUMPING/GENERATING PLANT (OPP)**

#### **Main Transformers Rehabilitation/Replacement**

Status: A Transformer Condition Assessment was performed by TSC in 2019. The transformers were in such poor condition that it was recommended that the transformers were to be refurbished or replaced. A Value Planning Study was conducted in 2020 and concluded to refurbish/rehabilitate the transformers in short term and plan to replace the transformers in the future. Emergency measures were also performed which included replacing (3) obsolete HV bushings (2019) and hot oil reconditioning of the in-service transformers (2020) to ensure transformers remained eligible for rehabilitating. Quarterly oil monitoring was completed in April and the results were acceptable.

Work completed by TSC and SLDMWA includes: scope of work, specifications, contract documents, formal solicitation, site visit, and responses to questions. One proposal was received and is currently being reviewed. Contract award is anticipated after August board meeting.

#### **Arc Flash Hazard Analysis, Facility Rating, & Protective Relays Reviews (Electrical Equipment Periodic Reviews) (FY22)**

Status: No activity this month. The Facility Rating Review has been received. The personal protective grounds were upgraded per recommendations from the Facility Rating Review. Performed an inspection of the unit busses. A report of the findings will be provided to TSC per recommendation. The Arc Flash Hazard Analysis final report has been received. The Protective Relays Review is still pending a draft review. SLDMWA continues to provide engineering support to TSC.

#### **OPP Pump Bowl Modification & Replacement (Design and USBR Approval)**

Status: No activity this month. Project is on hold while scope is being re-evaluated to ensure the continued reliability of the OPP units. A value engineering study is tentatively scheduled early August, with SLDMWA an active participant.

#### **Penstock Cathodic Protection System Replacement (FY22)**

Status: Project is complete. Construction was completed May 2022, and follow-up survey and training was completed this month. Final documentation has been provided to Reclamation and accepted.

## **EXTRAORDINARY O&M & CAPITAL PROJECTS**

### **UPS Battery Charging System Replacement (FY22)**

Status: No activity this month. Installation will be timed concurrent with the outage for the transformer rehabilitation at OPP (April/May 2023). Equipment purchase for this job will occur 6 months prior to the Main Transformer Rehabilitation project starting.

### **OPP Station Service Backup Battery System Replacement (FY23)**

Status: No activity this month. Equipment purchase for this job will occur 6 months prior to the Main Transformer Rehabilitation project starting.

## **TRACY FACILITIES (TFO)**

### **TFO Domestic Water Treatment Plant Replacement (FY20)**

Status: No activity this month. Raw water quality test results were provided to package plant vendors for quotes. Vendor quotes received will be evaluated for completeness for future selection. Treatment Plant Drainage: SLDMWA Engineers proposed modifications to the drainage design to prevent ponding in and around the WTP building. Final design and review has been completed and is awaiting construction by SLDMWA staff.

## **MULTIPLE FACILITIES**

### **TFO/LBFO/DCI Arc Flash Hazard Analysis (FY22)**

Status: Received the project management plan from TSC in August 2021. SLDMWA reviewed a draft Letter of Agreement (LOA) and feedback with comments was provided to Reclamation's Tracy Office. The final copy of the LOA has been signed and copies sent back to Reclamation. Site work is tentatively scheduled for July 2022.

### **SCADA System Evaluation (FY23)**

Status: SCADA staff is currently undergoing site discovery and documentation of the existing SCADA System. Research is being conducted on how best to upgrade the system to current standards while keeping a manageable budget. Researching cyber security to ensure new Federal requirements and guidelines are met. Developing a manageable 10-year plan for SCADA.



**San Luis & Delta-Mendota Water Authority  
OPERATIONS SUMMARY**

*NOTE: ALL FIGURES ARE IN ACRE FEET*

	<b>May-2022</b>	<b>May-2021</b>
JONES PUMPING PLANT - PUMPED	55,870	49,301
DCI PLANT - PUMPED	0	0
DCI PLANT - RETURNED	0	0
O'NEILL P/G PLANT - PUMPED	27,484	879
O'NEILL P/G PLANT - GENERATED	2,592	45,508
DMC DELIVERIES	17,821	26,829
RIVER/WELL/RECYCLE WATER INTO DMC	9,840	9,546
MENDOTA POOL DELIVERIES	76,866	67,109
SHASTA RESERVOIR STORAGE	1,815,100	1,976,300
SAN LUIS RESERVOIR STORAGE	918,152	885,570
SLR FEDERAL SHARE	338,234	288,541

	<b>May-2022</b>	<b>May-2021</b>
SAN LUIS UNIT DELIVERIES	30,626	44,748
SAN LUIS UNIT WELL WATER	0	0
SAN FELIPE UNIT DELIVERIES	6,879	11,901

Jones Pumping Plant monthly average = 909 cfs



**San Luis & Delta-Mendota Water Authority  
Monthly Deliveries  
May 2022**

From: Seth Harris, Water Operations Superintendent, 209-324-1033 (cell)

Date: 7/6/22

<u>District/Other</u>	Total Available Water into System (INCOMING) (Acre Feet)	AG/Refuge Deliveries (Acre Feet)	M & I Deliveries (Acre Feet)	Total Deliveries (OUTGOING) (Acre Feet)
<b>Total Pumped @ Jones Pumping Plant</b>	<b>55,870</b>			
<b>Total Pumped @ DCI</b>	<b>0</b>			
<b>Total Reversed @ DCI</b>	<b>0</b>			
City of Tracy		0	575	575
Byron Bethany I.D.		439	43	482
West Side I.D.		0	0	0
Banta Carbona I.D.		73	0	73
West Stanislaus I.D.		258	0	258
Patterson I.D.		0	0	0
Del Puerto W.D.		5,444	1	5,445
Central California I.D. - above check #13		859	0	859
San Luis W.D.- above check #13		0	0	0
Volta Wildlife Mgmt. Area (Fish & Game)		0	0	0
Fish & Wildlife (Volta) Santa Fe - Kesterson		0	0	0
Grasslands W.D. (Volta)		226	0	226
<b>Total Pumped @ O'Neill PP</b>	<b>(27,484)</b>			
<b>Total Generated @ O'Neill PP</b>	<b>2,592</b>			
Central California I.D. - below check #13		5,564	0	5,564
Grasslands W.D. (76.05-L)		3,427	0	3,427
Fish & Game Los Banos Refuge (76.05-L)		300	0	300
Fish & Wildlife Kesterson (76.05-L)		0	0	0
Freitas Unit (76.05-L)		0	0	0
Salt Slough Unit (76.05-L)		0	0	0
China Island (76.05-L)		0	0	0
San Luis W.D. - below check #13		249	0	249
Panoche W.D.		25	2	27
Eagle Field W.D.		51	0	51
Oro Loma W.D.		0	0	0
Mercy Springs W.D.		0	0	0
Firebaugh Canal W.D. (D.M.C.)		285	0	285
River and Groundwater well pump-in	7,583			
North Valley Regional Recycled Water Program	2,257			
Change in Canal Storage	(16)			
Wasteway Flushing and Spill	0			
Total Available in Delta-Mendota Canal	40,802			
<b>TOTAL DELIVERY FROM DELTA-MENDOTA CANAL</b>	<b>(17,821)</b>	<b>17,200</b>	<b>621</b>	<b>17,821</b>
Theoretical DMC Delivery to Mendota Pool	22,981			
Total DMC Metered Delivery to MP	21,033			
Estimated (Loss) or Gain in DMC	(1,948)			
Estimated % Loss or Gain in DMC	-3.33%			



**San Luis & Delta-Mendota Water Authority  
Monthly Deliveries  
May 2022**

<u>District/Other</u>	Total Available Water into System (INCOMING) (Acre Feet)	AG/Refuge Deliveries (Acre Feet)	M & I Deliveries (Acre Feet)	Total Deliveries (OUTGOING) (Acre Feet)
Estimated DMC Inflow to MP	21,033			
Mendota Pool Groundwater Well Pump-In	3,790			
(+)SJRR Releases into Mendota Pool	0			
(+)SJR Releases into the Mendota Pool	63,101			
<u>Mendota Pool Delivery Information</u>				
<u>Exchange Contractors:</u>				
Central California Irrigation District (CCID)		41,512	0	41,512
Columbia Canal Company (CCC)		4,457	0	4,457
Firebaugh Canal Water District (FCWD)		2,931	0	2,931
San Luis Canal Company (SLCC)		12,053	0	12,053
<u>Refuge:</u>				
Conveyance Losses		646	0	646
Calif Dept of F/G-LB Unit (CCID)		100	0	100
Calif Dept of F/G-LB Unit (SLCC)		298	0	298
Calif Dept of F/G-Salt Slough Unit (CCID)		0	0	0
Calif Dept of F/G-China Island Unit (CCID)		0	0	0
US Fish & Wildlife-San Luis Refuge (SLCC)		0	0	0
US Fish & Wildlife-Freitas (CCID)		0	0	0
US Fish & Wildlife-Kesterson (CCID)		0	0	0
Grasslands WD (CCID)		1,142	0	1,142
Grasslands WD (SLCC)		254	0	254
Grasslands (Private)		0	0	0
San Luis WD Conveyance (CCID)		11	0	11
Del Puerto WD Conveyance (CCID)		0	0	0
<u>San Joaquin River Restoration:</u>				
SJRR		0	0	0
<i>Other: (see MP Operations Report)</i>		13,462	0	13,462
<i>Total Available Water in Mendota Pool</i>	87,924	0		
<b>TOTAL DELIVERY FROM MENDOTA POOL</b>	<b>(76,866)</b>	<b>76,866</b>	<b>0</b>	<b>76,866</b>
*Estimated (Loss) or Gain in Mendota Pool	(11,058)			
*Estimated % Loss or Gain in Mendota Pool	-12.58%			
Total System Delivery	(94,687)			
<b>*Total Estimated System (Loss) or Gain</b>	<b>(13,006)</b>			
<b>*Total Estimated % System Loss or Gain</b>	<b>-9.78%</b>			

**Special Notes:**

San Joaquin River Releases into Mendota Pool to meet Exchange Contractors and Settlement Contractors demands



Jones Pumping Plant  
May - 2022

<b>Date</b>	<b># OF UNITS</b>	<b>TIME ON/OFF</b>	<b>AVG DAILY CFS</b>
1	1	CONTINUOUSLY	904
2	1	CONTINUOUSLY	915
3	1	CONTINUOUSLY	904
4	1	CONTINUOUSLY	908
5	1	CONTINUOUSLY	908
6	1	CONTINUOUSLY	916
7	1	CONTINUOUSLY	901
8	1	CONTINUOUSLY	903
9	1	CONTINUOUSLY	906
10	1	CONTINUOUSLY	908
11	1	CONTINUOUSLY	916
12	1	CONTINUOUSLY	907
13	1	CONTINUOUSLY	906
14	1	CONTINUOUSLY	901
15	1	CONTINUOUSLY	907
16	1	CONTINUOUSLY	915
17	1	CONTINUOUSLY	911
18	1	CONTINUOUSLY	904
19	1	CONTINUOUSLY	914
20	1	CONTINUOUSLY	910
21	1	CONTINUOUSLY	903
22	1	CONTINUOUSLY	901
23	1	CONTINUOUSLY	901
24	1	CONTINUOUSLY	905
25	1	CONTINUOUSLY	915
26	1	CONTINUOUSLY	918
27	1	CONTINUOUSLY	915
28	1	CONTINUOUSLY	909
29	1	CONTINUOUSLY	915
30	1	CONTINUOUSLY	910
31	1	CONTINUOUSLY	912
<b>AVG CFS for the month</b>			<b>909</b>



**NON-PROJECT WATER CREDITS REPORT**  
 (ALL FIGURES IN ACRE FEET)  
 May 2022 WA Credits

Date: 6/13/2022

<b>CREDITS UNDER WARREN ACT CONTRACTS</b>									
Turnout	Start Meter Reading	End Meter Reading	Factor	Adjust	District	Total	Less 5%	Month	Year
3.32-R1	0	0	1	0	BBID	0	0	0	0
3.32-R2	0	0	1	0	BBID	0	0	0	0
3.32-R3	10,150	10,775	1	0	BBID	625	(31)	594	2,650
13.31-L	4,804	4,804	1	0	BBID	0	0	0	0
15.11-R	2,974	2,974	1	0	BBID	0	0	0	213
20.42-L	38,137,860	39,054,729	1	0	BCID	2,814	(141)	2,673	12,306
20.42-L	38,137,860	39,054,729	1	0	USB/FWA	0	0	0	0
21.12-L	990	990	1.01	0	DPWD	0	0	0	0
21.86-L	770	770	1	0	DPWD	0	0	0	0
24.38-L	2,707	2,711	1.04	0	DPWD	4	0	4	86
29.95-R	1,327	1,328	0.87	(1)	DPWD	0	0	0	0
30.43-L	7,432	7,435	1	(3)	DPWD	0	0	0	0
30.43-R	2,123	2,123	0.92	0	DPWD	0	0	0	0
30.95-L	1,920	1,921	1.03	(1)	DPWD	0	0	0	0
31.31-L1	81,056	83,356	1	0	WSTAN	1,936	(97)	1,839	10,539
31.31-L2	81,056	83,356	1	0	DPWD	364	(18)	346	3,076
31.31-L3	81,056	83,356	1	0	PID	0	0	0	0
31.60-L	8,183	8,183	0.93	0	DPWD	0	0	0	0
32.35-L	1,794	1,794	0.86	0	DPWD	0	0	0	0
33.71-L	749	749	0.94	0	DPWD	0	0	0	0
36.80-L	1,845	1,845	1	0	DPWD	0	0	0	0
37.10-L	3,357	3,369	0.94	0	DPWD	11	(1)	10	10
37.32-L	2,653	2,653	0.91	0	DPWD	0	0	0	0
42.50-R	1,034	1,034	0.96	0	DPWD	0	0	0	0
42.53-L	6,524,956	6,586,767	1	0	PID	1,419	(71)	1,348	5,213
42.53-L	6,524,956	6,586,767	1	0	DPWD	0	0	0	0
42.53-L	6,524,956	6,586,767	1	0	USB/FWA	0	0	0	0
43.22-L	55	55	1	0	DPWD	0	0	0	0
48.97-L	3,143	3,143	0.95	0	SLWD	0	0	0	243
50.46-L	5,371	5,385	1.07	0	DPWD	15	(1)	14	217
51.00-R	296	296	0.89	0	DPWD	0	0	0	0
51.66-L	766	800	0.98	0	DPWD	33	(2)	31	100
52.40-L	1,478	1,481	1	0	DPWD	3	0	3	66
58.28-L	2,983	3,044	1.02	0	SLWD	62	(3)	59	212
58.60-L	917	917	0.96	0	DPWD	0	0	0	0
58.73-R	442	445	1	0	DPWD	3	0	3	12
64.85-L	1,662	1,662	0.72	0	DPWD	0	0	0	0
<b>UPPER DMC SUB TOTAL</b>								<b>6,924</b>	<b>34,943</b>



## NON-PROJECT WATER CREDITS REPORT

(ALL FIGURES IN ACRE FEET)

May 2022 WA Credits

<b>CREDITS UNDER WARREN ACT CONTRACTS</b>									
Turnout	Start Meter Reading	End Meter Reading	Factor	Adjust	District	Total	Less 5%	Month	Year
78.31-L	4,469	4,469	1.08	0	SLWD	0	0	0	0
79.12-R	5,665	5,665	0.91	0	SLWD	0	0	0	121
79.13-L	733	779	1	0	SLWD	46	(2)	44	149
79.13-R	4,928	4,928	1.08	0	SLWD	0	0	0	0
79.60-L	4,582	4,728	0.84	0	SLWD	123	(6)	117	416
80.03-L	834	834	0.94	0	SLWD	0	0	0	128
80.03-R	717	717	1.05	0	SLWD	0	0	0	0
98.60-R	12,467	12,908	1	(146)	PANOCHÉ/MS	295	(15)	280	825
98.74-L	5,695	5,695	1.14	0	PANOCHÉ/MS	0	0	0	0
99.24-L	10,493	10,493	0.92	0	PANOCHÉ/MS	0	0	0	0
100.70-L	6,211	6,211	1	0	PANOCHÉ/MS	0	0	0	0
102.04-R	2,767	2,997	1	0	WIDREN WD	230	(12)	218	370
<b>LOWER DMC SUB TOTAL</b>								<b>659</b>	<b>2,009</b>
<b>WARREN ACT CONTRACT CREDIT TOTAL</b>								<b>7,583</b>	<b>36,952</b>
<b>TOTAL GROSS PUMP-IN</b>								<b>CREDIT</b>	
<b>TOTAL (BYRON BETHANY IRRIGATION DISTRICT)</b>						<b>0</b>		<b>0</b>	<b>213</b>
<b>TOTAL (BANTA CARBONA IRRIGATION DISTRICT)</b>						<b>0</b>		<b>0</b>	<b>0</b>
<b>TOTAL (DEL PUERTO WATER DISTRICT)</b>						<b>69</b>		<b>65</b>	<b>491</b>
<b>TOTAL (WEST STANISLAUS IRRIGATION DISTRICT)</b>						<b>503</b>		<b>478</b>	<b>9,177</b>
<b>TOTAL (PATTERSON IRRIGATION DISTRICT)</b>						<b>0</b>		<b>0</b>	<b>0</b>
<b>TOTAL (SAN LUIS WATER DISTRICT)</b>						<b>231</b>		<b>220</b>	<b>1,269</b>
<b>TOTAL (PANOCHÉ WATER DISTRICT)</b>						<b>295</b>		<b>280</b>	<b>825</b>
<b>TOTAL (MERCY SPRINGS WATER DISTRICT)</b>						<b>0</b>		<b>0</b>	<b>0</b>
<b>TOTAL (WIDREN WATER DISTRICT)</b>						<b>230</b>		<b>218</b>	<b>370</b>
<b>Other Warren Act Conveyance Credit Totals</b>									
<b>Del Puerto Water District:</b>						<b>364</b>		<b>346</b>	<b>3,076</b>
<b>Banta Carbona Irrigation District:</b>						<b>2,814</b>		<b>2,673</b>	<b>12,306</b>
<b>West Stanislaus Irrigation District:</b>						<b>1,433</b>		<b>1,361</b>	<b>1,361</b>
<b>Byron Bethany Irrigation District:</b>						<b>625</b>		<b>594</b>	<b>2,650</b>
<b>Patterson Irrigation District:</b>						<b>1,419</b>		<b>1,348</b>	<b>5,213</b>
<b>San Joaquin River Restoration Pump Back BCID:</b>						<b>0</b>		<b>0</b>	<b>0</b>
<b>San Joaquin River Restoration Pump Back PID:</b>						<b>0</b>		<b>0</b>	<b>0</b>

Notes: 3.32-R, 20.42-L, 31.31-L and 42.53-L are River water  
Panoche WD to transfer 110 AF of DMC Non-Project Water to Westlands WD.





**MENDOTA POOL OPERATIONS  
2022  
ALL FIGURES IN ACRE-FEET**

Date: 6/13/22  
Revised 7/5/2022

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
FRESNO SLOUGH	0	86	60	87	201								434
TPUD	0	0	0	12	16								28
JAMES I.D.	141	172	97	2,476	7,128								10,014
MEYERS	0	177	150	49	136								512
M.L. DUDLEY & INDART <sup>1</sup>	0	126	159	317	373								975
MID VALLEY* (Kings River)	0	0	0	0	0								0
REC. DIST. 1606	0	41	0	59	75								175
STATE FISH & WILDLIFE	1,643	1,954	159	206	516								4,478
TRACTION	547	795	290	328	140								2,100
UNMETERED	40	140	15	10	150								355
<b>Total</b>	<b>2,230</b>	<b>2,889</b>	<b>464</b>	<b>544</b>	<b>806</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6,933</b>
COELHO FAMILY TRUST <sup>2</sup>	58	337	529	470	668								2,062
TRANQUILITY I.D.	0	1,877	1,226	1,719	3,626								8,448
WESTLANDS LATERAL-6	0	0	5	20	39								64
WESTLANDS LATERAL-7	0	0	0	0	2,093								2,093
CARVALHO TRUST	0	39	41	63	109								252
<b>TOTAL</b>	<b>2,429</b>	<b>5,744</b>	<b>2,731</b>	<b>5,816</b>	<b>15,270</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>31,990</b>

NUMBERS SHOWN IN **BOLD** WERE REVISED AFTER DISTRIBUTION OF REPORT

1 aka COELHO-GARDNER-HANSEN 2 aka TERRA LINDA FARMS

Article 215 Water

Kings River Water

BECK	120	PATOS	COLE	TRANQUILITY	1 ACRE
0%	0%	0%	0%	0%	0%

Duck Clubs (Percent Full)

Jan, 2022  
DMC Inflow 17,602 AF  
James Bypass Flows 0 AF

May, 2022  
DMC Inflow 16,463 AF  
James Bypass Flows 0 AF

Sept, 2022  
DMC Inflow 0 AF  
James Bypass Flows 0 AF

Feb, 2022  
DMC Inflow 53,145 AF  
James Bypass Flows 0 AF

June, 2022  
DMC Inflow 0 A.F  
James Bypass Flows 0 AF

Oct, 2022  
DMC Inflow 0 AF  
James Bypass Flows 0 AF

Mar, 2022  
DMC Inflow 38,882 AF  
James Bypass Flows 0 AF

July, 2022  
DMC Inflow 0 AF  
James Bypass Flows 0 AF

Nov, 2022  
DMC Inflow 0 AF  
James Bypass Flows 0 AF

Apr, 2022  
DMC Inflow 11,912 AF  
James Bypass Flows 0 AF

Aug, 2022  
DMC Inflow 0 AF  
James Bypass Flows 0 AF

Dec, 2022  
DMC Inflow 0 AF  
James Bypass Flows 0 AF



**TABLE 19: GOVERNOR EDMUND G. BROWN CALIFORNIA AQUEDUCT  
SAN LUIS FIELD DIVISION MONTHLY DELIVERIES**

**MAY 2022**

REACH TOTALS	POOL	INFLOW INTO AQUEDUCT	CUSTOMERS	AMOUNT IN AF	
R3A 6880			Parks & Rec. @ San Luis Reservoir	1	
			Santa Clara Valley Water District	6879	
			Casa de Fruta (Santa Clara Valley Water District)	0	
			San Benito Water District	0	
R3 540	13		DFG @ O'Neill Forebay	101	
	13		Parks & Rec. @ O'Neill Forebay	0	
	13		DWR Water Truck at O'Neill 0 AF for Cattle Program @ O'Neill Forebay	0	
	13		San Luis Water District	439	
R4 13109	14		City of Dos Palos	108	
	14		Pacheco Water District	513	
	14		San Luis Water District	5030	
	14		Panoche Water District	29	
	15		San Luis Water District	1883	
	15		Panoche Water District	1497	
	15		Westlands Water District	4049	
R5 9922	16		DFG @ Lat. 4L (Pilibos)	65	
	16		DFG @ Lat. 4L	0	
	16		DFG @ Lat. 6L	0	
	16		DFG @ Lat. 7L	0	
	16	2065	Westlands Water District	3158	
	17		Westlands Water District	1380	
	18		City of Coalinga	307	
	18		Pleasant Valley Pumping Plant	2377	
	18		Westlands Water District	2635	
R6 4772	19		Alta Gas	0	
	19		City of Huron (P&R-Area 11) @ Lat. 22R	2	
	19		DWR Water Truck @ 22R/F&G @ Lat.22R	0	
	19		Lemoore N.A.S. thru WWD 29L & 30L	0	
	19		Kings County thru WWD 30L	0	
	19		Westlands Water District	4770	
3007	20		City of Huron @ Lat. 23R	82	
	20		DWR Water Truck @ 23R	0	
	20		Westlands Water District	1950	
	21		City of Avenal	208	
	21		Kings County thru WWD 37L,38L	0	
	21		Westlands Water District	767	
38230	2065		<---TOTALS--->	38230	
<b>TOTALS BY CUSTOMERS</b>					
Inflow Into Aqueduct:					
2065 AF TOTAL Pump-In				Pacheco Water District	513
1962 AF TOTAL Reported for Credit				San Luis Water District	7352
				Panoche Water District	1526
				Westlands Water District	21086
				AltaGas	0
				City of Huron @ LAT. 23R	82
				City of Huron (P&R/Area 11 @ 22R)	2
				Lemoore N.A.S. thru WWD @ 29L & 30L	0
				Kings County thru WWD Laterals in Pools 19 - 21	0
				City of Avenal	208
				City of Dos Palos	108
				City of Coalinga	307
				DFG @ O'Neill Forebay	101
				Pacheco Tunnel	6879
				DFG @ Lateral 4L & 6L & 7L	65
				DWR Water Truck @ 22R/F&G @ Lat.22R	0
				Parks & Recreation	1
				0 AF for DWR Water Truck at O'Neill, 1 AF for Cattle Program @ O'Neill Reservoir	0
				<b>Customers Total:</b>	<b>38230</b>
Pool 12 - Reach 2B					
VA Turnout Use AF =	47				
DWR 3137(Rev.9/15)					38277



## Monthly Availability Report

CW "Bill" Jones Pumping Plant

May - 2022

Unit #	Max Hours	Scheduled Outages (1)	%	Unscheduled Outages (2)	%	Over-all Availability %	Starts	Comments
							Pump	
Unit-1	744	0.0	0.00%	0.0	0.00%	100.00%	0	
Unit-2	744	708.7	95.26%	0.0	0.00%	4.74%	0	
Unit-3	744	744.0	100.00%	0.0	0.00%	0.00%	0	
Unit-4	744	744.0	100.00%	0.0	0.00%	0.00%	0	
Unit-5	744	0.0	0.00%	0.0	0.00%	100.00%	1	
Unit-6	744	708.7	95.26%	0.0	0.00%	4.74%	0	
Total	4464	2905.4	65%	0.0	0.00%	35.00%	1	

Notes:

(1) Planned maintenance

(2) Emergency outages and maintenance performed with less than 24 hours advance notice



## Monthly Availability Report

O'Neill Pump/Generating Plant  
May - 2022

Unit #	Max Hours	Scheduled Outages (1)	%	Unscheduled Outages (2)	%	Over-all Availability %	Starts		Comments
							Pump	Gen	
Unit-1	744	0.0	0.00%	0.0	0.00%	100.00%	1	1	
Unit-2	744	0.0	0.00%	0.0	0.00%	100.00%	0	1	
Unit-3	744	0.0	0.00%	4.4	0.59%	99.41%	2	0	
Unit-4	744	0.0	0.00%	744.0	100.00%	0.00%	0	0	
Unit-5	744	0.0	0.00%	0.0	0.00%	100.00%	2	1	
Unit-6	744	744.0	100.00%	0.0	0.00%	0.00%	0	0	
<b>Total</b>	<b>4464</b>	<b>744.0</b>	<b>17%</b>	<b>748.4</b>	<b>16.77%</b>	<b>66.23%</b>	<b>5</b>	<b>3</b>	

Notes:

(1) Planned maintenance

(2) Emergency outages and maintenance performed with less than 24 hours advance notice



## Monthly Availability Report

DCI Pumping Plant

May - 2022

Unit #	Max Hours	Scheduled Outages (1)	%	Unscheduled Outages (2)	%	Over-all Availability %	Starts	Comments
							Pump	
Unit-1	744	0.0	0.00%	0.0	0.00%	100.00%	0	
Unit-2	744	0.0	0.00%	0.0	0.00%	100.00%	0	
Unit-5	744	0.0	0.00%	0.0	0.00%	100.00%	0	
Unit-6	744	0.0	0.00%	0.0	0.00%	100.00%	0	
Total	2976	0.0	0%	0.0	0.00%	100.00%	0	

Notes:

(1) Planned maintenance

(2) Emergency outages and maintenance performed with less than 24 hours advance notice