



June 08, 2023

To: Pablo Arroyave, Chief Operating Officer

From: Bob Martin, Facilities O&M Director

Subject: O&M Report for May 2023

Operations Department

The C.W. "Bill" Jones Pumping Plant (JPP) operated with 2-5 units during the month of May. The average rate of pumping for the JPP was 3,621 cfs, for the month of May.

Total pumping at the JPP for the month of May was 222,645 acre-feet. The O'Neill Pump/Generating Plant (OPP) generated 0 acre-feet, and pumped 169,686 acre-feet during the month. 23,555 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 the month of May.

The Federal share in the San Luis Reservoir at the end of May was 956,965 acre-feet as compared to 338,227 acre-feet for the end of May 2022.

During the month of May, releases from Friant Dam ranged from 2,717 to 10,058 cfs with 78,953 AF entering the Mendota Pool during the month. Flows past the Mendota Dam for the San Joaquin River Restoration Program (SJRRP) were 17,018 acre-feet for the month of May. During the month of May, an additional 248,598 acre-feet of Kings River water entered the Mendota Pool via the James Bypass.

Canal Operations staff performed open channel and closed-pipe flow measurements, routine patrols, wasteway inspections, bi-weekly meter readings, water samples, well soundings, and routine meter maintenance during the month of May.

Control Operations switching/clearance placements performed this month:

- C-22-JP-91 JPP Unit 3 rewind/annual maintenance
- C-23-ON-18 OPP Unit 1 annual maintenance
- C-23-DCI-21A Cathodic protection system improvement erosion repair
- C-23-JP-23 JPP Unit 3 suction elbow
- C-23-JP-24 JPP Unit 1 RTD oil leak
- C-23-JP-24A JPP Unit 1 RTD oil leak
- C-23-DM-25 DMC MP 14.81-L replace turnout gate
- C-23-DM-26 DMC MP 21.21-L replace turnout gate
- C-23-JP-27 JPP Unit 1 UZ8A Switchgear Building
- C-23-JP-28 JPP unwatering & plant sump clean and inspect
- C-23-JP-28A JPP unwatering & plant sump clean and inspect

- C-23-JP-29 JPP unwatering & plant sump clean and inspect
- C-23-JP-30 JPP unwatering & plant sump clean and inspect
- C-23-JP-31 JPP unwatering & plant sump clean and inspect

Plant Maintenance Department

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

Electrical/C&I Staff:

- JPP industrial water system controls monthly PM
- JPP electrical and supervisory systems monthly PM
- JPP industrial water system controls quarterly PM
- JPP-U1 annual maintenance 12 month PM
- JPP emergency lighting system monthly PM
- JPP lighting inspection quarterly PM
- TFO Admin/E-Shop Building HVAC electrical inspection 6 month PM
- TFO Admin/E-Shop Building lighting inspection quarterly PM
- Control Building HVAC electrical inspection 6 month PM
- Control Building emergency lighting monthly PM
- OPP Unit 1 annual maintenance
- OPP phone system programming and modifications
- OPP station service annunciator alarm replacement & modifications
- OPP fiber cable to communication tower investigate for breaks
- OPP domestic water system upgrade controls with soft starters
- OPP station service & UPS Battery PM
- OPP station service chargers PM
- OPP annunciator PM
- OPP cathodic protection PM
- OPP emergency lighting PM
- OPP station service transformer PM
- OPP station service compressor PM
- OPP Unit 1 stuffing box bearing water temp display install
- OPP security gate PM
- OPP GFCI test and inspection PM
- OPP domestic water instrumentation PM
- LBFO security gate PM
- DMC Check 13 encoder troubleshoot malfunction
- DMC Volta Wells PM

Mechanical Staff:

- JPP Unit 3 rewind
- JPP Unit 1 annual maintenance
- JPP Unit 1 jack switch maintenance
- JPP service bay piping replacement
- JPP Control Building conference room remodel
- JPP Siphon Breaker House PM
- JPP trashrake festoon cable truck wheel replacement
- JPP unwatering pit PM
- JPP airwash system re-plumb and PM
- TFO car wash PM

- TFO Electric Shop HVAC PM
- TFO Warehouse Building HVAC PM
- TFO Canal Maintenance Garage HVAC PM
- TFO Admin office HVAC PM
- TFO Admin gate PM
- TFO Warehouse gate PM
- TFO, JPP, DCI door PM
- TFO domestic water tank inspections
- TFO landscape irrigation sand filter PM
- TFO Water Treatment Plant booster pump repair
- OPP Unit 1 annual maintenance
- OPP fabricate table and shaft for speed head testing
- OPP building door maintenance PM
- OPP 5-ton stop log crane PM
- OPP 5-ton gantry crane PM
- OPP 1-ton hoist crane PM
- OPP sump inspection PM
- OPP Unit 1 annual maintenance
- OPP Facility/Bathroom plumbing inspections PM
- OPP Plant checks and back wash filters
- OPP trashrack cleaning

USBR Support Services

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

- TFO Bureau entry and exit gate PM

Civil Maintenance Department

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

- TFO Control Building conference room remodel
- TFO Control Building/USBR Admin sprinkler replacement
- JPP intake channel erosion repair
- JPP fabricate drain grate
- DCI erosion repair
- DCI cathodic protection system improvement
- DMC/FWW chemical and mechanical weed control PM
- DMC excavate test pits for soil samples
- DMC turnout gate replacement (MP 18.05, 14.81, 21.25, & 22.20)
- DMC pipeline repair MP 43.22
- DMC turnout silt removal PM
- DMC grading of unpaved roads PM
- DMC bait station set up
- DMC handrail fabrication and painting
- DMC maintenance and repairs to float lines, signs, fences, guard rails & gates
- DMC garbage collection
- LBFO HVAC PM
- LBFO fuel storage inspection PM
- LBFO hazard waste inspection PM

- LBFO septic system treatment PM
- SLD road grading PM
- SLD mechanical weed control
- VWW erosion repair

Engineering Department

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

- Data management of well readings and creation of Warren Act hydrographs
- DCI U3 & U4 SCADA development
- OPP SCADA user station development
- JPP OPERATOR2 server replacement
- DCI cathodic protection system survey
- Intake channel erosion repair at MP 1.28 project planning
- Participation in USBR Comprehensive Security
- Support for OPP vibration monitoring
- RO&M recommendation updates for DMC, OPP, JPP & DCI
- DCI U5 control as-builts drawings
- OPP actuator rod procurement
- Attended USBR Power O&M Workshop
- Provided support to C&I staff for relay workshop

Land Management Activity Summary

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

- Access permit P2402006 was issued to Caltrans for graffiti removal from bridge crossing at MP72.80.
- Access permit P2404007 was issued to California Department of Fish & Wildlife for the temporary access to levee roads to search for Nutria using dogs along the Volta wasteway.

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

- Orestimba Creek Recharge Project
- Rogers Road bridge replacement 65% design review comments
- Koster Road bridge railing extensions, final comments

Safety Department

The Safety Department worked on the following items this month:

- Provided Job Hazard Analysis support for the crews.
- Sent out Weekly Safety Tailgate Topics
 - 5-1-2023 Heat Illness Prevention
 - 5-2-2023 Valley Fever
 - 5-3-2023 Preventing Fatigue
 - 5-4-2023 Fire Season – Preparing for the Worst
 - 5-5-2023 Making Safety a Habit
- Provided Safety Message for May 2023 Newsletter
 - National Water Safety Month
- Sent out Safety Messages
 - Snakes in the Workplace and

- Safety Recall to remove faulty DeWalt/Stanley sledgehammers
- Conducted new hire safety orientation
 - Heavy Equipment Operators: Ryan Marques and George Pacheco
 - Accountant II Deanna Ratliff
- Provided Facility Hazardous Energy Program training
- Arranged for hazardous waste pickup at OPP & TFO
- Scheduled annual hearing tests for employees
- Tested dielectric rubber gloves (six month testing)

Procurement and Work & Asset Management Department

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

- Continuous staff training and support for newer employees
- Attended Quarterly Safety meeting
- Resolved various invoice issues and disputes
- Closed out several pending NetSuite tickets for various issues
- Contracts/PO Agreements/LOA's Status Update:
 - F22-OPP-059 - OPP Main Transformer Rehabilitation – Executed May 8, 2023
 - F23-TFF-017 - Tension Arm Repairs, contract executed April 12, 2023 with start date pending funding from Bureau
 - F22-DMC-065 - Amendment 1 executed, not to exceed \$33,779.92 (Board approval not required)
 - F24-OPP-003 - Plant Water Storage Tank Rehab. No vendors at site walk, solicitation will continue
 - F24-TFO-001 – Seal Coat Project, pre-solicitation stage
 - F19-19-011 - executed Task Order 6 for \$73,863.00 (Board notice not required)

Ongoing:

- Purchasing in support of the O&M crews, and maintaining/replenishing warehouse stock
- Warehouse receiving, stocking, and distribution
- Invoicing/vendor bills/vendor credits processing/invoice disputes
- Janitorial cleaning & disinfecting per COVID-19 guidelines
- Participated in NetSuite weekly & biweekly meetings
- 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
- Reviewing and marking dead stock inventory for disposal

Information Technology Department

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

- NetSuite
 - User and Administration
 - Bi-Weekly Implementation Team meetings
 - Monitor FTC support activities for NetSuite
 - Resolved bundle error
- Assisted with monthly FAC, WRC and BOD meetings with Zoom
- Desktop support calls
- Server refresh hardware configuration
- Monitor Symantec Anti-Virus Management Console
- Security updates on servers
- Monitor Firewall
- Update additional AV security settings
- Multi Factor Authentication vendor SurePassID
 - Virtual server installed. Testing under progress
 - Evaluated deployment policies for BYOD
- Cyber Security Incidence Response Plan
- Disaster Recovery Plan
- Business Continuity Plan
- Cyber Security Team
- MDM IBM (MAAS360) monitoring
- Review Infragard dispatches – FBI Cyber Security group
- Cyber Security training and webinars
- Monitoring Darktrace Cyber Security appliance in IT network
 - Installed into SCADA network
 - Continued advanced configuration
- WAM Servers, prepping for redeployment
- Troubleshoot ongoing Email auto-discover issues
- Support of Water Operations iPads and new app deployments via MDM
- Continued conversation with DWR regarding use of Fiber from a 1992 contract agreement
- Document management: Demonstration completed
- Logistical and technical support provided to Trofholz for new site security installation vendor hired by BOR
- TFO conference room remodel, electrical, low voltage, OWL, hang screen

Ongoing:

- Create deployment packages for Office 2021 and deployment
- Research of gate control and request quote from vendor
- Re-organized computer racks and cabling for new servers

HR Department

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

General Administrative Activities:

- Active Recruitments:
 - None
- Closed Recruitments:
 - HR Analyst II
 - Mechanical Engineer
 - Control Operator
- Candidates Selected:
 - Accountant II, Los Banos
 - HR Analyst II, Los Banos
 - Jr. Mechanical Engineer
 - Control Operator
- ADA accommodation
- Skills testing
- New Hire Orientations

Trainings:

- Cyber Security training tracking (all staff)
- Sexual Harassment Prevention training tracking (all staff)
- Defensive Driving training tracking (all staff)
- Ethics training tracking (executive staff)

Government Reporting:

- EEOC reporting

Ongoing:

- Performance appraisal tracking
- FMLA notices/follow ups
- COBRA notices/follow ups
- Worker's Comp follow ups
- Monthly safety points distribution
- Health benefits eligibility/employee assistance
- Job description updates
- Policy updates
- 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: No changes this month. PG&E has completed the relocation of the 6-inch gas transmission line that crosses under the MP 92.73 bridge serving the City of Dos Palos. In the process of removing the pipeline from the bridge, PG&E's contractor damaged the concrete stem wall. Staff performed a visual inspection with PG&E inspectors and contractor and determined that the damage is within SLDMWA's capabilities for repair. PG&E has agreed to reimburse SLDMWA the full cost of the repair which is currently scheduled to be completed with the erosion repair. Scheduling for the erosion and liner repairs under the bridge abutment was planned for Spring 2023, however; there is a discussion of a planned Mendota Pool Dewatering which will allow SLDMWA to perform the repair in the dry. This will save SLDMWA money and time for construction and allow us to repair an adjacent site. Further discussions to occur. In the meantime the bridge remains closed until repairs are complete.

DMC Subsidence Correction Project

Status: SLDMWA is continuing to work closely with Reclamation on the DMC Subsidence Correction Project and is managing the \$2.4M CDM Smith Feasibility Study contract, and the \$2.7M Terracon Geotechnical contract. The Feasibility Report is expected to be completed in approximately one year, with certain environmental permitting extending longer as needed. The Final Draft Report has been scheduled to be completed by September 2023. Progress this month consisted of finalizing public comments to the EA/IS. The 3rd Administration Draft of the Feasibility Study was released internally, and being reviewed by Reclamation. Scheduled to be released to policy by 6/10. A contract amendment to include CESA compliance permitting was issued to ensure that SLDMWA may be able to award potential future contracts to support the Project. Terracon was awarded a Contract Amendment to complete the final Geotechnical Investigation Phases 2 & 3 in December 2022 and has completed 92% of the CPT's and 56% of the drill holes and 48% of test pits. SLDMWA maintenance staff provided backhoe support for Terracon's effort. SLDMWA staff is working with Reclamation on a new Cooperative Agreement that will bring in an additional \$3M from Reclamation that will be utilized to reimburse the Terracon contract costs.

Numerous design data collection efforts have been coordinated and continue to be discussed as time and weather permits. This month SLDMWA staff supported USBR's Bathymetric Survey of the lower DMC, and Sonar Surveys of portions of the upper DMC with maintenance staff. Geoarcheological trenches were completed by CDM's subconsultant, and Wetland Delineation field work was completed.

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). All field work and commissioning has

EXTRAORDINARY O&M & CAPITAL PROJECTS

been completed. USBR is awaiting spare parts from the contractor to issue final acceptance. SLDMWA activities to integrate the pumps into SCADA will occur after final acceptance. Reclamation staff is working on expediting the required environmental clearance to allow all six (6) pumps to operate concurrently.

DMC Turnout Flowmeter Upgrade Program – Phase 3 (FY23)

Status: Staff have finalized the flowmeter list, with detailed measurements, and will reach out to McCrometer in order to obtain a final quote. A single-source contract will be pursued. Contract is expected to be executed within the next few months.

O&M Road Maintenance Program – Phase 2 of 5 (FY24)

Status: No activity

C.W. “BILL” JONES PUMPING PLANT (JPP)

JPP Excitation System & Control Cabinet Modernization (FY18)

Status: SLDMWA is currently in contract with Reclamation through a Letter of Agreement. This month, Reclamation TSC provided the 90% Technical Specifications and Drawings with comments due on 6/19/2023. The 100% design package (Spec B) scheduled for completion in August 2023. Once received, SLDMWA staff will begin putting together the solicitation package. SLDMWA has received notice the application for \$25M of BIL (Aging Infrastructure) funding was approved and is working with Reclamation on repayment details.

JPP Wear Ring Purchase (FY22)

Status: No activity

JPP Unit No. 3 Rewind

Status: Jones Unit 3 rewind is underway. The rotor has been removed and placed in the JPP Machine Shop. The rotor poles are being refurbished and due to be shipped back in June. The new stator laminations have been installed, the finger press plates and through bolts have been reinstalled and torqued. The stator slots have been painted, the surge rings and bus bars have been installed, the stator coils have been installed, and NEC is currently braising the series connections. Overall the rewind is on schedule and the unit is scheduled to return to service in September 2023.

TSY Switchgear Building UZ11A Repairs (Unplanned Project)

Status: A ground fault incident occurred in October 2021 that damaged the main feeder switchgear and bushing box in switchgear building UZ11A. Partial repairs were made, and the building is currently energized via adjacent switchgear building UZ8A (or UZ6A depending on circumstance). A two-phased contract was issued to Powell, the original designer and installer of the switchgear building, to supply repair materials (Phase 1), and perform the onsite repair work (Phase 2). Phase 1 supply contract has been completed, which included supplying the replacement bushing box, CTs, surge arresters, etc. Phase 2, onsite installation of the parts,

EXTRAORDINARY O&M & CAPITAL PROJECTS

was originally scheduled to occur October 2022 but was delayed when repair materials in Phase 1 were not ready. Phase 2 is now scheduled starting September 2023 for three weeks. CVO has given the approval for units 2 and 6 outage, which UZ11A Switchgear Building feeds power to. Note: Unit 3 rewind is scheduled to be completed and back in service prior to starting the UZ11A repairs.

JPP Concrete Slab by Trashrake Dumpster (FY23)

Status: Project is currently in the planning and design phase. Technical specifications that incorporate the Geotechnical Report prepared by a consultant are currently being prepared in order to formally solicit for construction. Design drawings are substantially complete, awaiting internal review. Construction is tentatively scheduled to occur in Summer 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 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 high voltage bushings (2019) and hot oil reconditioning of the in-service transformers (2020) to ensure transformers remained eligible for rehabilitation.

The SLDMWA awarded the rehabilitation contract to Cal Electro Inc. (CEI) on May 10th (Board approved award on May 4th) and the Notice to Proceed was issued on May 18th. The construction required 45-day system outage at O'Neill PG Plant is planned for April-May 2024, pending favorable hydraulic conditions. Monitoring transformer insulation fluid continues quarterly with recent results confirms the insulating oil are still in good condition.

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

Status: Not activity this month. The field work for all three inspections occurred in FY22. The Facility Rating and Arc Flash Hazard Analysis are complete, with final reports received. The draft Protective Relays Review report has been reviewed and commented on by SLDMWA staff. The final draft of the Protective Relays Review is still pending.

OPP Upgrades (Previously Pump Bowl Modification & Replacement)

Status: Staff has been working with Reclamation to begin the Operational and Mechanical Assessments recommended during the Value Planning Study. Reclamation staff is currently putting together a Project Management Plan that will allow us to enter a Letter of Agreement to begin the assessments. SLDMWA staff expects to receive it soon.

EXTRAORDINARY O&M & CAPITAL PROJECTS

OPP UPS Battery Charging System Replacement (FY22)

Status: Staff has created a contract scope of work and will be soliciting quotes early June. Installation of system is scheduled to occur during the planned outage for the OPP Main Transformer Rehabilitation project.

OPP Station Service Backup Battery System Replacement (FY23)

Status: Staff has created a contract scope of work and will be soliciting quotes early June. Installation of system will be done concurrently with the UPS Battery Charging System Replacement during the planned outage for the OPP Main Transformer Rehabilitation project.

OPP Accusonic Flowmeter Console Upgrades (FY23)

Status: No activities this month. Staff is awaiting an outage in order to install the final 2 units. The other four (4) consoles have been installed and are fully operational.

OPP Plant Water Storage Tanks Rehabilitation (FY24)

Status: The contracts department held a pre-bid site walk, with little contractor interest. Project will be resolicited.

OPP Sand Filter System Rehabilitation Design (FY24)

Status: Began discussions with USBR Sacramento on scope of work.

OPP Cooling Water System Rehabilitation Design (FY24)

Status: Began discussions with USBR Sacramento on scope of work.

TRACY FACILITIES (TFO)

TFO Domestic Water Treatment Plant Replacement (FY20)

Status: Major water treatment equipment has been ordered with an anticipated delivery date of September 2023. Construction has begun on the building roof replacement. Anticipated completion of the new roof is July 2023. Site grading and drainage plans are currently being designed by staff.

TFO O&M Compound, Seal Coat Surfacing & Striping (Including USBR Lot) (FY23)

Status: Conducted asphalt survey of both project sites and developed a budgetary price for Slurry Seal vs Seal Coat including asphalt repairs.

MULTIPLE FACILITIES

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

Status: The Analysis was conducted by Reclamation TSC through a LOA. The onsite surveys for TFO, LBFO, and DCI were completed in September 2022. The Arc Flash Hazard Analysis Reports are expected to be completed by September 2023. Ongoing engineering support has been provided to TSC for DCI Arc Flash

EXTRAORDINARY O&M & CAPITAL PROJECTS

Hazard Analysis regarding recommendations from Arc Flash Hazard Analysis 2013. A draft report for LBFO was received for review and comment.

SCADA System Evaluation (FY23)

Status: The development of controls and SCADA standards and best practices is in process. Staff is continuing to work on the project, with the following tasks in progress:

- Developing a plan for obsolescence, remediation and continuous improvement of SCADA and controls;
- Developing plan for testing the security, speed, and proper use of DWR fiber;
- Implementing the second step of cyber security device (DarkTrace);
- Developing a plan for file structure and file backup on new file server;
- Implementing new wiring structure and organization plan into current rack system;
- Developing a plan to implement new active directory server into current system with minimal downtime;
- Finalizing software conversion plan;
- Developing plan to implement CISA and federal cyber security mandated requirements with the least amount of system downtime; and
- Developing plan for remediation of controls and communication for siphon house alerts.



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

NOTE: ALL FIGURES ARE IN ACRE FEET

	April-2023	April-2022
JONES PUMPING PLANT - PUMPED	128,763	53,626
DCI PLANT - PUMPED	91	0
DCI PLANT - RETURNED	0	0
O'NEILL P/G PLANT - PUMPED	118,021	52,140
O'NEILL P/G PLANT - GENERATED	0	0
DMC DELIVERIES	13,252	5,598
RIVER/WELL/RECYCLE WATER INTO DMC	3,104	16,675
MENDOTA POOL DELIVERIES	59,544	44,593
SHASTA RESERVOIR STORAGE	4,430,100	1,808,200
SAN LUIS RESERVOIR STORAGE	2,013,748	950,045
* FEDERAL SHARE	957,468	356,990

	April-2023	April-2022
SAN LUIS UNIT DELIVERIES	7,173	6,515
SAN LUIS UNIT WELL WATER	0	0
SAN FELIPE UNIT DELIVERIES	3,930	7,164

Jones Pumping Plant monthly average = 2,164 cfs



**San Luis & Delta-Mendota Water Authority
Monthly Deliveries
April 2023**

Date: 5/16/23
Revised: 5/17/23

District/Other	Total Available Water into System (INCOMING) (Acre Feet)	AG/Refuge Deliveries (Acre Feet)	M & I Deliveries (Acre Feet)	Total Deliveries (OUTGOING) (Acre Feet)
Total Pumped @ Jones Pumping Plant	128,763			
Total Pumped @ DCI	(91)			
Total Reversed @ DCI	0			
City of Tracy		0	672	672
Byron Bethany I.D.		217	1	218
West Side I.D.		0	0	0
Banta Carbona I.D.		0	0	0
West Stanislaus I.D.		3,314	0	3,314
Patterson I.D.		166	0	166
Del Puerto W.D.		4,552	6	4,558
Central California I.D. - above check #13		298	0	298
San Luis W.D.- above check #13		0	0	0
Volta Wildlife Mgmt. Area (Fish & Game)		352	0	352
Fish & Wildlife (Volta) Santa Fe - Kesterson		0	0	0
Grasslands W.D. (Volta)		0	0	0
Total Pumped @ O'Neill PP	(118,021)			
Total Generated @ O'Neill PP	0			
Central California I.D. - below check #13		549	0	549
Grasslands W.D. (76.05-L)		0	0	0
Fish & Game Los Banos Refuge (76.05-L)		0	0	0
Fish & Wildlife Kesterson (76.05-L)		71	0	71
Freitas Unit (76.05-L)		227	0	227
Salt Slough Unit (76.05-L)		0	0	0
China Island (76.05-L)		0	0	0
San Luis W.D. - below check #13		658	0	658
Panoche W.D.		783	2	785
Eagle Field W.D.		166	0	166
Oro Loma W.D.		30	0	30
Mercy Springs W.D.		0	0	0
Firebaugh Canal W.D. (D.M.C.)		1,188	0	1,188
River and Groundwater well pump-in	936			
North Valley Regional Recycled Water Program	2,168			
Change in Canal Storage	833			
Wasteway Flushing and Spill	0			
Total Available in Delta-Mendota Canal	14,588			
TOTAL DELIVERY FROM DELTA-MENDOTA CANAL	(13,252)	12,571	681	13,252
Theoretical DMC Delivery to Mendota Pool	1,336			
Total DMC Metered Delivery to MP	0			
Estimated (Loss) or Gain in DMC	(1,336)			
Estimated % Loss or Gain in DMC	-1.03%			



**San Luis & Delta-Mendota Water Authority
Monthly Deliveries
April 2023**

<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	0			
Mendota Pool Groundwater Well Pump-In	0			
(+)SJRRP Releases into Mendota Pool	17,852			
(+)Available Flood Releases from Friant into Mendota Pool	31,702			
(+)Other San Joaquin River Water	0			
(+)Kings River Flood Releases into Mendota Pool	247,471			
<u>Mendota Pool Delivery Information</u>				
<u>Exchange Contractors:</u>				
Central California Irrigation District (CCID)		23,450	0	23,450
Columbia Canal Company (CCC)		2,417	0	2,417
Firebaugh Canal Water District (FCWD)		1,345	0	1,345
San Luis Canal Company (SLCC)		5,648	0	5,648
<u>Refuge:</u>				
Conveyance Losses		0	0	0
Calif Dept of F/G-LB Unit (CCID)		0	0	0
Calif Dept of F/G-LB Unit (SLCC)		437	0	437
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)		378	0	378
US Fish & Wildlife-Kesterson (CCID)		117	0	117
Grasslands WD (CCID)		0	0	0
Grasslands WD (SLCC)		361	0	361
Grasslands (Private)		0	0	0
San Luis WD Conveyance (CCID)		41	0	41
Del Puerto WD Conveyance (CCID)		0	0	0
<u>San Joaquin River Restoration Project:</u>				
SJRRP		17,852	0	17,852
<i>Other: (see MP Operations Report)</i>		7,498	0	7,498
<i>Total Available Water in Mendota Pool</i>	297,025			
TOTAL DELIVERY FROM MENDOTA POOL	(59,544)	59,544	0	59,544
*Estimated (Loss) or Gain in Mendota Pool	(237,481)			
*Estimated % Loss or Gain in Mendota Pool	-79.95%			
Total System Delivery	(72,796)			
*Total Estimated System (Loss) or Gain	(238,817)			
*Total Estimated % System Loss or Gain	-55.57%			

Special Notes: Flood Releases from Friant Dam and Pine Flat Dam



Jones Pumping Plant
April - 2023

Date	# OF UNITS	TIME ON/OFF	AVG DAILY CFS
1	5-4	CONTINUOUSLY	3522
2	4	CONTINUOUSLY	3516
3	4	CONTINUOUSLY	3521
4	4	CONTINUOUSLY	3501
5	4	CONTINUOUSLY	3495
6	4-1-2-1	0001, 0600, 1100	953
7	1	CONTINUOUSLY	813
8	1	CONTINUOUSLY	813
9	1-2	1700	1434
10	2	CONTINUOUSLY	1696
11	2	CONTINUOUSLY	1700
12	2	CONTINUOUSLY	1699
13	2	CONTINUOUSLY	1696
14	2	CONTINUOUSLY	1695
15	2	CONTINUOUSLY	1694
16	2	CONTINUOUSLY	1696
17	2	CONTINUOUSLY	1698
18	2	CONTINUOUSLY	1696
19	2	CONTINUOUSLY	1691
20	2	CONTINUOUSLY	1688
21	2	CONTINUOUSLY	1686
22	2	CONTINUOUSLY	1690
23	2	CONTINUOUSLY	2402
24	2	CONTINUOUSLY	2702
25	2	CONTINUOUSLY	2695
26	2	CONTINUOUSLY	2693
27	2	CONTINUOUSLY	2693
28	2	CONTINUOUSLY	2720
29	2	CONTINUOUSLY	2707
30	2	CONTINUOUSLY	2713
31			
AVG CFS for the month			2164



NON-PROJECT WATER CREDITS REPORT
 (ALL FIGURES IN ACRE FEET)
 April 2023 WA Credits

Date: 5/8/23

CREDITS UNDER WARREN ACT CONTRACTS									
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	12,798	12,924	1	0	BBID	126	(6)	120	120
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	0
20.42-L	43,062,245	43,328,154	1	0	BCID	0	0	0	0
20.42-L	43,062,245	43,328,154	1	0	USBR/FWA	816	0	816	5,619
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	3,081	3,081	1	0	DPWD	0	0	0	0
29.95-R	1,334	1,334	0.87	0	DPWD	0	0	0	0
30.43-L	7,464	7,464	1	0	DPWD	0	0	0	0
30.43-R	2,123	2,123	0.92	0	DPWD	0	0	0	0
30.95-L	2,149	2,149	1.03	0	DPWD	0	0	0	0
31.31-L1	87,779	87,780	1	0	WSTAN	0	0	0	0
31.31-L2	87,779	87,780	1	0	DPWD	0	0	0	0
31.31-L3	87,779	87,780	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	751	751	0.94	0	DPWD	0	0	0	0
36.80-L	1,847	1,847	1	0	DPWD	0	0	0	0
37.10-L	3,870	3,870	0.94	0	DPWD	0	0	0	0
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	6,841,176	6,841,176	1	0	PID	0	0	0	0
42.53-L	6,841,176	6,841,176	1	0	DPWD	0	0	0	0
42.53-L	6,841,176	6,841,176	1	0	USBR/FWA	0	0	0	177
43.22-L	55	55	1	0	DPWD	0	0	0	0
48.97-L	028	028	1	0	SLWD	0	0	0	0
50.46-L	6,025	6,025	1.07	0	DPWD	0	0	0	0
51.00-R	297	297	0.89	0	DPWD	0	0	0	0
51.66-L	3,434	3,434	0.98	0	DPWD	0	0	0	0
52.40-L	1,481	1,496	1	(15)	DPWD	0	0	0	0
58.28-L	3,365	3,365	1.02	0	SLWD	0	0	0	0
58.60-L	917	917	0.96	0	DPWD	0	0	0	0
58.73-R	494	494	1	0	DPWD	0	0	0	0
64.85-L	1,662	1,662	0.72	0	DPWD	0	0	0	0
UPPER DMC SUB TOTAL								936	5,916



NON-PROJECT WATER CREDITS REPORT

(ALL FIGURES IN ACRE FEET)

April 2023 WA Credits

CREDITS UNDER WARREN ACT CONTRACTS									
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	5,812	5,812	0.91	0	SLWD	0	0	0	0
79.13-L	1,164	1,164	1	0	SLWD	0	0	0	0
79.13-R	4,964	4,964	1.08	0	SLWD	0	0	0	0
79.60-L	5,979	5,979	0.84	0	SLWD	0	0	0	0
80.03-L	834	834	0.94	0	SLWD	0	0	0	0
80.03-R	717	717	1.05	0	SLWD	0	0	0	0
98.60-R	14,194	14,194	1	0	PANOCH/MS	0	0	0	0
98.74-L	5,695	5,695	1.14	0	PANOCH/MS	0	0	0	0
99.24-L	10,493	10,493	0.92	0	PANOCH/MS	0	0	0	0
100.70-L	6,211	6,211	1	0	PANOCH/MS	0	0	0	0
102.04-R	4,087	4,087	1	0	WIDREN WD	0	0	0	0
LOWER DMC SUB TOTAL								0	0
WARREN ACT CONTRACT CREDIT TOTAL								936	5,916
TOTAL GROSS PUMP-IN								CREDIT	
TOTAL (BYRON BETHANY IRRIGATION DISTRICT)						0	0	0	0
TOTAL (BANTA CARBONA IRRIGATION DISTRICT)						0	0	0	0
TOTAL (DEL PUERTO WATER DISTRICT)						0	0	0	0
TOTAL (WEST STANISLAUS IRRIGATION DISTRICT)						0	0	0	0
TOTAL (PATTERSON IRRIGATION DISTRICT)						0	0	0	0
TOTAL (SAN LUIS WATER DISTRICT)						0	0	0	0
TOTAL (PANOCH/MS WATER DISTRICT)						0	0	0	0
TOTAL (MERCY SPRINGS WATER DISTRICT)						0	0	0	0
TOTAL (WIDREN WATER DISTRICT)						0	0	0	0
Other Warren Act Conveyance Credit Totals									
Del Puerto Water District:						0	0	0	0
Banta Carbona Irrigation District:						0	0	0	0
West Stanislaus Irrigation District:						0	0	0	0
Byron Bethany Irrigation District:						126	120	120	120
Patterson Irrigation District:						0	0	0	0
San Joaquin River Restoration Pump Back BCID:						816	816	5,619	5,619
San Joaquin River Restoration Pump Back PID:						0	0	177	177

Notes: 3.32-R, 20.42-L, 31.31-L and 42.53-L are River water



MENDOTA POOL OPERATIONS
2023
 ALL FIGURES IN ACRE-FEET

Date: 5/10/2023

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
FRESNO SLOUGH	0	60	0	95									155
TPUD	0	18	0	0									18
JAMES I.D.	916	2,156	0	28									3,100
MEYERS	0	0	876	1,638									2,514
M.L. DUDLEY & INDART ¹	0	0	206	182									388
MID VALLEY (Kings River)	0	0	0	1,446									1,446
REC. DIST. 1606	0	0	0	0									0
STATE FISH & WILDLIFE	199	1,119	42	7									1,367
TRACTION	170	566	56	0									792
UNMETERED	40	125	0	0									165
Total	409	1,810	98	7	0	0	0	0	0	0	0	0	2,324
COELHO FAMILY TRUST ²	0	18	0	474									492
TRANQUILITY I.D.	0	678	197	1,261									2,136
WESTLANDS LATERAL-6	0	0	0	0									0
WESTLANDS LATERAL-7	610	477	2,160	2,326									5,573
CARVALHO TRUST	0	0	0	41									41
TOTAL	1,935	5,217	3,537	7,498	0	0	0	0	0	0	0	0	18,187

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

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

Article 215 Water

January James ID 916 AF
February James ID 2156 AF
March Meyers 90 AF
April Meyers 90 AF

Kings River Water

February Tranquility ID 44 AF
March Tranquility ID 197 AF
March Meyers 486 AF
April Tranquility ID 1,261 AF
April Mid Valley 1,446 AF
April Meyers 1,548 AF
April James ID 28 AF

Duck Clubs (Percent Full)

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

Jan, 2023
 DMC Inflow 3,372 AF
 James Bypass Flows 0 AF

Feb, 2023
 DMC Inflow 18672 AF
 James Bypass Flows 1,619 AF

Mar, 2023
 DMC Inflow 2,341 AF
 James Bypass Flows 162,266 AF

Apr, 2023
 DMC Inflow 0 AF
 James Bypass Flows 247,471 AF

May, 2023
 DMC Inflow AF
 James Bypass Flows 0 AF

June, 2023
 DMC Inflow A.F
 James Bypass Flows 0 AF

July, 2023
 DMC Inflow AF
 James Bypass Flows 0 AF

Aug, 2023
 DMC Inflow AF
 James Bypass Flows 0 AF

Sept, 2023
 DMC Inflow AF
 James Bypass Flows 0 AF

Oct, 2023
 DMC Inflow AF
 James Bypass Flows 0 AF

Nov, 2023
 DMC Inflow AF
 James Bypass Flows 0 AF

Dec, 2023
 DMC Inflow AF
 James Bypass Flows 0 AF

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

Revised 5/9/2023

Revised 5/16/2023

Revised 5/18/23

APRIL 2023

REACH TOTALS	POOL	INFLOW INTO AQUEDUCT	CUSTOMERS	AMOUNT IN AF
R3A 3930			Parks & Rec. @ San Luis Reservoir	0
			Santa Clara Valley Water District	3111
			Casa de Fruta (Santa Clara Valley Water District)	0
			San Benito Water District	819
R3 142	13		DFG @ O'Neill Forebay	0
	13		Parks & Rec. @ O'Neill Forebay	0
	13		DWR Water Truck at O'Neill 1 AF for Cattle Program @ O'Neill Forebay	1
	13		Santa Nella County Water District	21
	13		San Luis Water District	120
R4 14150	14		City of Dos Palos	49
	14		Pacheco Water District	854
	14		San Luis Water District	2800
	14		Panoche Water District	55
	15		San Luis Water District	1248
	15		Panoche Water District	2054
	15		Westlands Water District	7090
R5 38422	16		DFG @ Lat. 4L (Pilibos)	0
	16		DFG @ Lat. 4L	0
	16		DFG @ Lat. 6L	0
	16		DFG @ Lat. 7L	0
	16	2164	Westlands Water District	9112
	17		Westlands Water District	9532
	18		City of Coalinga	264
	18		Pleasant Valley Pumping Plant	10724
	18		Westlands Water District	8790
R6 14443	19		Alta Gas	0
	19		City of Huron (P&R-Area 11) @ Lat. 22R	0
	19		DWR Water Truck @ 22R/F&G @ Lat.22R	0
	19		Lemoore N.A.S. thru WWD 28L,29L,&30L	140
	19		Kings County thru WWD	554
	19		Westlands Water District	13749
R7 14777	20		City of Huron @ Lat. 23R	56
	20		DWR Water Truck @ 23R	0
	20	594	Westlands Water District	10308
	21		City of Avenal	186
	21		Kings County thru WWD 37L,38L	0
	21		Westlands Water District	4227
85864		2758	<---TOTALS--->	85864
TOTALS BY CUSTOMERS				
Inflow Into Aqueduct:				
2164 AF TOTAL for PUMP-IN				
594 AF TOTAL for FLOOD				
			Santa Nella County Water District	21
			Pacheco Water District	854
			San Luis Water District	4168
			Panoche Water District	2109
			Westlands Water District	73532
			AltaGas	0
			City of Huron @ LAT. 23R	56
			City of Huron (P&R/Area 11 @ 22R)	0
			Lemoore N.A.S. thru WWD @ 28L,29L&30L	140
			Kings County thru WWD Laterals in Reach 6	554
			City of Avenal	186
			City of Dos Palos	49
			City of Coalinga	264
			DFG @ O'Neill Forebay	0
			Pacheco Tunnel	3930
			DFG @ Lateral 4L & 6L & 7L	0
			DWR Water Truck @ 22R/F&G @ Lat.22R	0
			Parks & Recreation	0
			0 AF for DWR Water Truck at O'Neill, 1 AF for Cattle Program @ O'Neill Reservoir	1
Customers Total:				85864
Pool 12 - Reach 2B				
VA Turnout Use AF = 20				
DWR 3137(Rev.9/15)				85884



Monthly Availability Report

CW "Bill" Jones Pumping Plant

April - 2023

Unit #	Max Hours	Scheduled Outages (1)	%	Unscheduled Outages (2)	%	Over-all Availability %	Starts	Comments
							Pump	
Unit-1	720	483.4	67.14%	0.0	0.00%	32.86%	0	
Unit-2	720	3.2	0.44%	0.0	0.00%	99.56%	1	
Unit-3	720	720.0	100.00%	0.0	0.00%	0.00%	0	
Unit-4	720	0.0	0.00%	0.0	0.00%	100.00%	0	
Unit-5	720	0.0	0.00%	0.0	0.00%	100.00%	1	
Unit-6	720	0.0	0.00%	0.0	0.00%	100.00%	3	
Total	4320	1206.6	28%	0.0	0.00%	72.00%	5	

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
April - 2023

Unit #	Max Hours	Scheduled Outages (1)	%	Unscheduled Outages (2)	%	Over-all Availability %	Starts		Comments
							Pump	Gen	
Unit-1	720	448.6	62.31%	0.0	0.00%	37.69%	0	0	
Unit-2	720	0.0	0.00%	0.0	0.00%	100.00%	0	0	
Unit-3	720	0.0	0.00%	0.0	0.00%	100.00%	1	0	
Unit-4	720	0.0	0.00%	0.0	0.00%	100.00%	1	0	
Unit-5	720	0.0	0.00%	0.0	0.00%	100.00%	0	0	
Unit-6	720	0.0	0.00%	0.0	0.00%	100.00%	1	0	
Total	4320	448.6	10%	0.0	0.00%	90.00%	3	0	

Notes:

(1) Planned maintenance

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



Monthly Availability Report

DCI Pumping Plant

April - 2023

Unit #	Max Hours	Scheduled Outages (1)	%	Unscheduled Outages (2)	%	Over-all Availability %	Starts	Comments
							Pump	
Unit-1	720	0.0	0.00%	0.0	0.00%	100.00%	0	
Unit-2	720	0.0	0.00%	0.0	0.00%	100.00%	0	
Unit-5	720	0.0	0.00%	0.0	0.00%	100.00%	0	
Unit-6	720	0.0	0.00%	0.0	0.00%	100.00%	0	
Total	2880	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