



October 06, 2022

To: Pablo Arroyave, Chief Operating Officer

From: Bob Martin, Facilities O&M Director

Subject: O&M Report for September 2022

Operations Department

The C.W. "Bill" Jones Pumping Plant (JPP) operated with 2-3 units for the first 27 days of September. The average rate of pumping for the JPP during this period was approximately 2,381cfs.

Total pumping at the JPP for the first 27 days of September was approximately 127,457 acre-feet. The O'Neill Pump/Generating Plant (OPP) generated 6,287 acre-feet, and pumped 66,064 acre-feet during the same period of September. Zero acre-feet was pumped at the Delta-Mendota Canal/California Aqueduct Intertie Plant (DCI) and zero acre-feet was reversed from the California Aqueduct to the DMC for the same period of September.

The Federal share in the San Luis Reservoir on the 27 of September was 238,976 acre-feet as compared to 42,730 acre-feet for September 2021.

During the first 27 days of September, releases from Friant Dam ranged from 220 to 273 cfs with zero AF entering the Mendota Pool. Flows past the Mendota Dam for the San Joaquin River Restoration Program (SJRRP) were zero AF for September.

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

Control Operations switching/clearance placements performed this month:

- C-22-JPP-19D JPP Unit 4 annual maintenance / Rewind
- C-22-ON-48 OPP Unit 3 annual maintenance
- C-22-JPP-49 JPP Unit 6 annual maintenance
- C-22-JPP-50 JPP Unit 6 suction elbow maintenance
- C-22-JPP-49A JPP Unit 6 annual maintenance
- C-22-JPP-52 JPP Unit 6 accumulator tank maintenance
- C-22-DCI-53 DCI discharge valve wiring

Plant Maintenance Department

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

Electrical/C&I Staff:

- JPP Unit 6 annual maintenance
- JPP Unit 4 rewind
- OPP Unit 3 vane position modification and calibration
- OPP station service battery PM
- OPP ½ Ton crane PM
- OPP domestic water PM
- OPP 3 Ton crane PM
- OPP Unit 3 flowmeter install and programming
- LBFO gate PM
- LBFO domestic water PM
- Investigate TFO entrance gate failure
- DMC check level detector failures (1,6,9)
- Check 20 PLC repairs

Mechanical Staff:

- JPP trash rack cleaning
- JPP Unit 6 annual maintenance
- JPP Unit 4 rewind reassembly
- Forklift training
- Sandblast & paint Canal Maintenance spray truck body
- OPP Unit 3 annual maintenance
- OPP Unit 3 stuffing box water supply solenoid replacement

USBR Support Services

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

- DXC rodent baiting assistance
- TFCF boom truck and operator for stoplog installation support

Civil Maintenance Department

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

- Grading of DMC and VWW operating roads
- OPP mechanical maintenance support
- JPP mechanical maintenance support
- Install and paint new handrails on DMC turnout steps
- Fabricate pipe fencing along the DMC
- Repaired roadway gate located at MP 42.50-L
- 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
- Prep and paint over graffiti on farm bridges and check structures
- Fill in voids behind liner and erosion repair along the DMC
- New employee Class A driver training
- TFO Drainage Improvement Project

- San Luis Drain drainage improvements
- Hauled concrete blocks to TFO (safety barriers)
- Installed newly painted bed on the new spray truck
- Shoulder drain inspections along the DMC
- Fabricated new locking devices for the Volta Well (security upgrade)
- Firebaugh wasteway maintenance (beaver dam removal)
- Disassembled pipes at Check 10 and hauled to WSID
- Hauled fuel containments and tanks to WSID from LBFO
- Installed K-rails at MP 93.25 to block public access to the farm bridge
- Grading along Little Salado Creek
- Minor office repairs at LBAO
- Confined Space Class
- Prep work associated with the 30th Anniversary Celebration

Engineering Department

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

- OPP Unit 1 enclosure tube repair
- OPP Unit 3 breaker charging coil repair
- TSY UZ11A switchgear building repairs
- DMC seepage monitoring @ MP 20.15L
- Data management of well readings and creation of Warren Act hydrographs
- OPP cooling water strainer purchase (Special Project)
- DCI U3 & U4 pump Installations engineering support and SCADA development
- OPP Unit 3 generator switchgear transfer switch repair
- New SCADA office
- OPP SCADA hardware troubleshooting
- OPP Kinney strainer purchase
- OPP Accusonics flowmeter panel upgrades
- Roof access hatch guardrail design for Electric Shop and Canal & Vehicle Maintenance Shop
- TFO transformer MAIN leak monitoring
- DCI cathodic protection system repairs

2022 DMC Pumpback Project

- Finalized plans and documented work completed
- Continued work to get final invoice and final report completed

Land Management Activity Summary

The Engineering staff issued four (4) access permits this month:

- Access permit P2302019 was issued to the Pacific Gas & Electric Company to remove existing pipeline attached to the farm bridge at MP 92.73 on the Delta-Mendota Canal right-of-way.
- Access permit P2302021 was issued to Del Puerto Water District to abandon existing turnout located at MP 40.45-L on the Delta-Mendota Canal.
- Access permit P2302022 was issued to Stanislaus Towing Services allowing them to enter onto the Delta-Mendota Canal right-of-way to remove/recover vehicles.

- Access permit P2302024 was issued to Pacific Gas & Electric Company to re-coat existing pipeline adjacent to county bridge located at MP 57.95-R.

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

- Development of Land Management requirements for adjacent developments
- Orestimba Creek Recharge Project
- City of Tracy commercial developments
- City of Patterson – Roger Road developments & Baldwin Ranch comments
- Nees Avenue Bridge replacement
- Santa Nella County WD pipeline crossing review
- I-205 Bridge replacement
- PGE pipeline replacement at MP 92.73

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 – 9-1 Electrical Safety, 9-2 Practice Good Housekeeping, 9-3 Hot Work Safety, 9-4 Roadside Safety
- Provided safety message for September 2022 Newsletter – 9-2022 Caught or Crushed Injuries
- Conducted quarterly safety facility inspection
- Conducted FHECP training for SLDMWA authorized employees and contractors
- Conducted permit required confined space authorized employee training
- Accompanied Merced County Environmental Health inspectors while conducting a hazardous materials inspection at Los Banos Field Office

Procurement and Work & Asset Management Department

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

- Continued training and support with Warehouse Inventory Control Clerk and Buyer
- WAM Manager completed 3-way match testing in NetSuite
- Started advanced procurement software testing in Sandbox (NetSuite)
- Tested and finalized outstanding NetSuite issues, moved to production
- Finalized FY24 department budget
- Completed probationary performance appraisals
- Attended Planet Bids demonstration for solicitation database. Added line item to budget.
- Signed up for free account with “Public Purchase”, a free vendor solicitation database.
- Provided response to legal for public records request
- Contracts/PO Agreements/LOA’s Status Update:
 - F22-OPP-059 - OPP Main Transformer Rehabilitation. Rejected all change requests from NASS, resulting in NASS withdrawing bid in August. SLDMWA and BOR staff held strategy meeting and determined to go back out for bid. Staff met with legal to discuss Request for Interest (RFI) and sent finalized RFI to legal for final review. Anticipated post date for RFI is 9/28 with

responses due the end of October. Official Request for Proposal (RFP) anticipated release date in January 2023.

- F22-JPP-071- UZ11A Switchgear Bushing Box Replacement - Board approved single source in February. Contract executed in April with project ongoing and awaiting materials. Received update that parts are behind schedule and project will be delayed
- F23-TFO-006 Landscape Maintenance - released Request for Quote (RFQ) to multiple vendors for 3 years (+ two 1 year options to renew) agreement. Resoliciting utilizing new Public Purchase platform.
- Executed amendment and task order change orders for F19-19-011 for engineering services agreement. PO3690.
- Began work on professional services agreement for Corrosion Engineering Services NTE \$24,000
- RFQ sent out for LBFO pesticides
- RFQ sent out for Hyacinth spraying est. amount \$4,194.00
- Issued PO 4171 to Metaltek International for 5 JPP shaft sleeves \$58,939
- Issued Professional Services Contract and PO to Terracon Consultants for Geotech sampling \$22,000
- Issued PO to Water Reclamation Equipment in the amount of \$26,528.44 for labor and materials associated with the pump back project that was canceled.
- Issued PO4295 to Chrisp Company for DMC White Fog Line striping \$13,676.90

Ongoing:

- Purchasing in support of the O&M crews, and maintaining/replenishing warehouse stock
- Warehouse receiving, stocking, and distribution
- Invoicing/vendor bills/vendor credit processing and invoice disputes
- 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
- 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
 - New Project Manager to streamline support from Affirma
- 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
 - Purchased replacement/upgrade firewall to deploy late September 2022
- Update additional AV security settings
- Multi Factor Authentication vendor SurePass
- Follow-up meeting with Active Directory threat defense vendor
- Additional meeting with Protective DNS vendor
- 2nd Draft of Cyber Security Incidence Response Plan
- First draft Disaster Recovery Plan
- First draft Business Continuity Plan
- Cyber Security purchase requirements list developed. (IT and SCADA)
- In-house Cyber Security technical team selected and approved
- FirstNet deploying iPhones and iPad SIMS
 - Laures iPhone deployed
- Completed mass hard drive data destruction to DOD standards for e-cycle process
- MDM IBM (MAAS360) end user device settings and monitoring
- Reviewed Infragard dispatches – FBI Cyber Security group
- Cyber Security training and webinars
- WAM servers, prepping for redeployment
- EO&M 10-year budget research, edit and complete for FY24
- Deployed new workstations to OPP
- Repair of failed Avaya phone system in Tracy
- Assist SCADA department with developing 10-year EO&M budget
- Closed Ring Central account
- Research and updates to O&M FY24 Budget for IT (5110)
- Deploy 3 laptops to Electric Shop
- Troubleshoot Email autodiscover issues after WEB site move
 - Purchased and installed new security certificate
- Created common “Accounts Payable” email
- Started Darktrace evaluation for Cyber Security monitoring
- Supplied data access to Legal Department for PRA
- Terminated data lines in new SCADA office
- Assist SCADA team in research of fiber to DWR California Aqueduct Check 12
- Support of Water Operations iPads and new app deployments via MDM
- Initial meet and greet with Tyler technologies regarding Cyber Security support
- Research & plan AV requirements for 30 Year Anniversary celebration

HR Department

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

General Administrative Activities:

- Active Recruitments:
 - Hydro Electric Electrician, Tracy (continued recruitment)
 - Apprentice Electrician, Tracy (internal recruitment)
 - Apprentice Plant Mechanic, Tracy (internal recruitment)
 - Control Operator, Tracy
 - Contract Specialist, Tracy
- Closed Recruitments:
 - Mechanical (Plant) Engineer, Tracy (candidate selected)
 - Relief Control Operator, Tracy (candidate selected)
- Budget preparation
- Preparation for Open Enrollment
- Background checks for PIV cards (continuing)
- New hire orientations

Training:

- 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:

- VETS 4212 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
- 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: 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 will be removing the existing pipeline from the bridge and HDD install a new pipeline under the canal. Final plans have been completed by PG&E and SLDMWA has issued an Access Permit. PG&E's contractor is scheduled to mobilize October 3rd to begin installation. Once the new line is installed, the old pipeline will be removed from the MP92.73 bridge. The project is scheduled to conclude in November 2022. SLDMWA will be performing erosion and liner repairs under the bridge abutment once PG&E demobilizes as weather permits. SLDMWA is planning for the repairs to occur in early 2023 and is currently submitting for a project budget amendment incorporating updated design level estimates. The bridge was recently closed due to safety concerns and will remain closed until repairs are complete.

DMC Subsidence Correction Project

Status: SLDMWA is continuing to work closely with Reclamation on the DMC Subsidence Correction Project. CDM Smith was awarded the \$2.4M contract in February 2022 to complete the Feasibility Study. 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 by 3/6/2023. CDM subconsultants submitted the 1st Administrative Draft of the EA/IS, and Feasibility Study and both SLDMWA and USBR provided numerous comments. CDM has held coordination meetings with commenters and is progressing the EA/IS and Feasibility Study to the 2nd Admin Draft Level. USBR Design Estimating and Construction (DEC) review has concluded and resulted in eight (8) recommendations for consideration during final design. USBR is accommodating one of the DEC recommendations with additional site investigations in support of the feasibility analysis, SLDMWA continues to provide information as requested. CDM is conducting an Ability To Pay (ATP) analysis and has identified a number of member districts to study. A request for member information will be solicited in the coming weeks. SLDMWA is currently coordinating with USBR and the geotechnical consultant, Terracon, in developing an updated schedule and budget including the DEC recommended investigations.

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). After numerous supply chain issues, all materials were received by Unico and they mobilized back to the site on 9/26. Commissioning of the new units is scheduled in October.

EXTRAORDINARY O&M & CAPITAL PROJECTS

DMC Turnout Flowmeter Upgrade Program – Phase 3

Status: 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 Cabinet Modernization (FY18)

Status: SLDMWA is currently in contract with Reclamation through a Letter of Agreement. Reclamation TSC has provided the 60% Technical Specifications and Drawings, while the Engineer’s Estimate will be provided in the 90% package. The 60% package is being reviewed by the Authority and Reclamation Design and Construction Branch CGB-250. The 90% package is scheduled for completion in November.

JPP Wear Ring Purchase (FY22)

Status: No activity

JPP Unit No. 4 Rewind

Status: NEC has completed their portion of the work on the rotor and it has been turned over to the Authority to begin reassembly. The rotor was reinstalled on 9/26/2022 and work has begun to restore the unit to operational status. Acceptance testing is scheduled for the week of November 14, 2022

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. Production of laminations is scheduled to start in October.

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 (original designer and installer of the switchgear building). Building UZ11A is currently energized via adjacent switchgear building UZ8A (or UZ6A depending on circumstance). The contract for Powell to provide the repairs and replacement has been executed with the majority of submittals reviewed and approved. In August, Powell informed SLDMWA that they could not furnish the bushing box for September, and requested to reschedule the repairs. The cancellation for the outage (9/7 – 9/28) was sent to CVO and WAPA. The repairs and system outage is tentatively rescheduled for April 2023.

EXTRAORDINARY O&M & CAPITAL PROJECTS

JPP Concrete Slab by Trashrake Dumpster (FY23)

Status: Project is currently in the planning and design phase. A geotechnical investigation was completed by Terracon to characterize the subgrade to ensure an optimum design is pursued. Staff is currently awaiting the final Geotechnical report in order to prepare the Technical Specifications formally solicit. 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 high voltage bushings (2019) and hot oil reconditioning of the in-service transformers (2020) to ensure transformers remained eligible for rehabilitation. Quarterly oil monitoring continues and the latest test results in August were acceptable. Next oil monitoring will be in late November.

SLDMWA formerly solicited for the rehabilitation of the transformers in March and received one proposal. SLDMWA and Reclamation worked closely to review the initial proposal and obtained Board approval in August to award the contract pending a satisfactorily revised proposal score and successful negotiations with the contractor. Ultimately, the contractor was unable to resolve the issues with the proposal and opted to withdraw their proposal on June 8. After accepting the withdrawal of the proposal, SLDMWA regrouped and evaluated the lessons learned and is now taking a more proactive approach to attract greater contractor interest that should lead to additional proposals. A formal request for Letters of Interest will be issued in October notifying Contractors of the upcoming Request for Proposal (RFP). The RFP is tentatively scheduled to be advertised in January 2023, with construction scheduled to occur April/May of 2024, pending favorable hydrologic conditions for the outage.

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. Staff 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 delivery of the final report.

EXTRAORDINARY O&M & CAPITAL PROJECTS

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

Status: The value planning study was completed and staff is currently regrouping on how best to accomplish tasks identified in the study. Several assessments were recommended to be completed to determine the best way to move forward to achieving a reliable plant. EO&M projects have been reprioritized to prevent reworks and sunk costs. FY24 proposed projects are focused on ancillary systems that are critical and won't be affected by the assessment results.

UPS Battery Charging System Replacement (FY22)

Status: Staff is evaluating whether or not to pursue this job separately from the transformer rehabilitation (April/May 2024). Initially it was planned to purchase the equipment 6 months prior to the start of the Main Transformer Rehabilitation project in order to take advantage of the planned outage, however plans may continue for an April 2023 installation.

OPP Station Service Backup Battery System Replacement (FY23)

Status: This project, along with the UPS Battery Charging System Replacement will be done concurrently. It was planned to purchase the equipment 6 months prior to the start of the Main Transformer Rehabilitation project in order to take advantage of the planned outage, however plans may continue for an April 2023 installation.

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 construction by SLDMWA staff began on July 26th.

MULTIPLE FACILITIES

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

Status: The Analysis will be conducted by Reclamation TSC through a LOA. The onsite survey was completed this month and the Arc Flash Hazard Analysis Reports are expected to be completed by September 2023.

SCADA System Evaluation (FY23)

Status: Site discovery and documentation of the existing SCADA System is ongoing. The development of controls and SCADA standards is in process. Research is being conducted on how best (with major supply chain issues) to upgrade the system to current standards and then maintain the system with a newly developed 10-year plan. Communication continues to determine if an existing fiber line owned and operated by DWR could be utilized for SLDMWA communication. Staff is

EXTRAORDINARY O&M & CAPITAL PROJECTS

evaluating and developing operational technology (OT) cyber security needs and response plan. Work continues to build a controlled area to evaluate and test new hardware and software implementations before going live. Negotiating with vendors on software licensing and hardware availability is ongoing.



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

NOTE: ALL FIGURES ARE IN ACRE FEET

	August-2022	August-2021
JONES PUMPING PLANT - PUMPED	166,526	53,381
DCI PLANT - PUMPED	115	0
DCI PLANT - RETURNED	0	0
O'NEILL P/G PLANT - PUMPED	36,992	364
O'NEILL P/G PLANT - GENERATED	2,274	53,584
DMC DELIVERIES	34,402	31,206
RIVER/WELL/RECYCLE WATER INTO DMC	2,891	6,270
MENDOTA POOL DELIVERIES	89,458	72,876
SHASTA RESERVOIR STORAGE	1,590,200	1,226,700
SAN LUIS RESERVOIR STORAGE	570,426	275,176
SLR FEDERAL SHARE	185,239	24,888

	August-2022	August-2021
* SAN LUIS UNIT DELIVERIES	36,746	22,658
SAN LUIS UNIT WELL WATER	0	0
SAN FELIPE UNIT DELIVERIES	11,162	8,568

Jones Pumping Plant monthly average = 2,708 cfs



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

Date: 9/13/22

<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)
Total Pumped @ Jones Pumping Plant	166,526			
Total Pumped @ DCI	(115)			
Total Reversed @ DCI	0			
City of Tracy		0	796	796
Byron Bethany I.D.		245	29	274
West Side I.D.		0	0	0
Banta Carbona I.D.		0	0	0
West Stanislaus I.D.		2,922	0	2,922
Patterson I.D.		2,435	0	2,435
Del Puerto W.D.		4,306	3	4,309
Central California I.D. - above check #13		1,839	0	1,839
San Luis W.D.- above check #13		0	0	0
Volta Wildlife Mgmt. Area (Fish & Game)		841	0	841
Fish & Wildlife (Volta) Santa Fe - Kesterson		0	0	0
Grasslands W.D. (Volta)		224	0	224
Total Pumped @ O'Neill PP	(36,992)			
Total Generated @ O'Neill PP	2,274			
Central California I.D. - below check #13		18,321	0	18,321
Grasslands W.D. (76.05-L)		0	0	0
Fish & Game Los Banos Refuge (76.05-L)		230	0	230
Fish & Wildlife Kesterson (76.05-L)		134	0	134
Freitas Unit (76.05-L)		0	0	0
Salt Slough Unit (76.05-L)		0	0	0
China Island (76.05-L)		23	0	23
San Luis W.D. - below check #13		292	1	293
Panoche W.D.		419	0	419
Eagle Field W.D.		10	0	10
Oro Loma W.D.		0	0	0
Mercy Springs W.D.		0	0	0
Firebaugh Canal W.D. (D.M.C.)		1,332	0	1,332
River and Groundwater well pump-in	656			
North Valley Regional Recycled Water Program	2,235			
Change in Canal Storage	(12)			
Wasteway Flushing and Spill	0			
Total Available in Delta-Mendota Canal	134,572			
TOTAL DELIVERY FROM DELTA-MENDOTA CANAL	(34,402)	33,573	829	34,402
Theoretical DMC Delivery to Mendota Pool	100,170			
Total DMC Metered Delivery to MP	95,944			
Estimated (Loss) or Gain in DMC	(4,226)			
Estimated % Loss or Gain in DMC	-2.50%			



**San Luis & Delta-Mendota Water Authority
Monthly Deliveries
August 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	95,944			
Mendota Pool Groundwater Well Pump-In	5,502			
(+)SJRR Releases into Mendota Pool	0			
(+)Kings River Flood Releases into the Mendota Pool	0			
<u>Mendota Pool Delivery Information</u>				
<u>Exchange Contractors:</u>				
Central California Irrigation District (CCID)		52,300	0	52,300
Columbia Canal Company (CCC)		4,538	0	4,538
Firebaugh Canal Water District (FCWD)		4,382	0	4,382
San Luis Canal Company (SLCC)		18,492	0	18,492
<u>Refuge:</u>				
Conveyance Losses		67	0	67
Calif Dept of F/G-LB Unit (CCID)		76	0	76
Calif Dept of F/G-LB Unit (SLCC)		302	0	302
Calif Dept of F/G-Salt Slough Unit (CCID)		0	0	0
Calif Dept of F/G-China Island Unit (CCID)		7	0	7
US Fish & Wildlife-San Luis Refuge (SLCC)		0	0	0
US Fish & Wildlife-Freitas (CCID)		0	0	0
US Fish & Wildlife-Kesterson (CCID)		44	0	44
Grasslands WD (CCID)		0	0	0
Grasslands WD (SLCC)		0	0	0
Grasslands (Private)		0	0	0
San Luis WD Conveyance (CCID)		106	0	106
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>		9,144	0	9,144
<i>Total Available Water in Mendota Pool</i>	101,446			
TOTAL DELIVERY FROM MENDOTA POOL	(89,458)	89,458	0	89,458
*Estimated (Loss) or Gain in Mendota Pool	(11,988)			
*Estimated % Loss or Gain in Mendota Pool	-11.82%			
Total System Delivery	(123,860)			
*Total Estimated System (Loss) or Gain	(16,214)			
*Total Estimated % System Loss or Gain	-9.27%			

Special Notes: Extra water sent into the Mendota Pool to raise elevation due to hyacinth and operational needs.



Jones Pumping Plant
August - 2022

Date	# OF UNITS	TIME ON/OFF	AVG DAILY CFS
1	3	CONTINUOUSLY	2721
2	3	CONTINUOUSLY	2706
3	3	CONTINUOUSLY	2744
4	3	CONTINUOUSLY	2706
5	3	CONTINUOUSLY	2731
6	3	CONTINUOUSLY	2706
7	3	CONTINUOUSLY	2702
8	3	CONTINUOUSLY	2706
9	3	CONTINUOUSLY	2717
10	3	CONTINUOUSLY	2707
11	3	CONTINUOUSLY	2704
12	3	CONTINUOUSLY	2715
13	3	CONTINUOUSLY	2711
14	3	CONTINUOUSLY	2714
15	3	CONTINUOUSLY	2718
16	3	CONTINUOUSLY	2712
17	3	CONTINUOUSLY	2721
18	3	CONTINUOUSLY	2717
19	3	CONTINUOUSLY	2720
20	3	CONTINUOUSLY	2704
21	3	CONTINUOUSLY	2711
22	3	CONTINUOUSLY	2579
23	3	CONTINUOUSLY	2691
24	3	CONTINUOUSLY	2703
25	3	CONTINUOUSLY	2717
26	3	CONTINUOUSLY	2709
27	3	CONTINUOUSLY	2721
28	3	CONTINUOUSLY	2715
29	3	CONTINUOUSLY	2706
30	3	CONTINUOUSLY	2706
31	3	CONTINUOUSLY	2712
AVG CFS for the month			2708



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

Date: 9/13/22

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	12,429	12,797	1	0	BBID	368	(18)	350	4,571
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	39,055,323	39,055,411	1	0	BCID	0	0	0	12,306
20.42-L	39,055,323	39,055,411	1	0	USBR/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	2,711	2,711	1.04	0	DPWD	0	0	0	86
29.95-R	1,332	1,333	0.87	(1)	DPWD	0	0	0	0
30.43-L	7,445	7,445	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	1,921	2,003	1.03	0	DPWD	84	(4)	80	80
31.31-L1	83,510	83,510	1	0	WSTAN	0	0	0	10,685
31.31-L2	83,510	83,510	1	0	DPWD	0	0	0	3,076
31.31-L3	83,510	82,510	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	750	750	0.94	0	DPWD	0	0	0	0
36.80-L	1,846	1,847	1	(1)	DPWD	0	0	0	0
37.10-L	3,425	3,472	0.94	0	DPWD	44	(2)	42	102
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	6,604,119	6,604,119	1	0	PID	0	0	0	5,591
42.53-L	6,604,119	6,604,119	1	0	DPWD	0	0	0	0
42.53-L	6,604,119	6,604,119	1	0	USBR/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	5,472	5,472	1.07	0	DPWD	0	0	0	306
51.00-R	296	296	0.89	0	DPWD	0	0	0	0
51.66-L	807	807	0.98	0	DPWD	0	0	0	107
52.40-L	1,481	1,481	1	0	DPWD	0	0	0	66
58.28-L	3,065	3,106	1.02	0	SLWD	42	(2)	40	272
58.60-L	917	917	0.96	0	DPWD	0	0	0	0
58.73-R	452	454	1	0	DPWD	2	0	2	21
64.85-L	1,662	1,662	0.72	0	DPWD	0	0	0	0
UPPER DMC SUB TOTAL								514	37,725



NON-PROJECT WATER CREDITS REPORT

(ALL FIGURES IN ACRE FEET)

August 2022 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	5,762	5,812	0.91	0	SLWD	46	(2)	44	249
79.13-L	850	869	1	0	SLWD	19	(1)	18	234
79.13-R	4,928	4,928	1.08	0	SLWD	0	0	0	17
79.60-L	4,788	4,802	0.84	2	SLWD	14	(1)	13	476
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	13,765	13,765	1	0	PANOCH/MS	0	0	0	1,312
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	3,389	3,460	1	0	WIDREN WD	71	(4)	67	809
LOWER DMC SUB TOTAL								142	3,225
WARREN ACT CONTRACT CREDIT TOTAL								656	40,950
TOTAL GROSS PUMP-IN								CREDIT	
TOTAL (BYRON BETHANY IRRIGATION DISTRICT)						0		0	213
TOTAL (BANTA CARBONA IRRIGATION DISTRICT)						0		0	0
TOTAL (DEL PUERTO WATER DISTRICT)						130		124	768
TOTAL (WEST STANISLAUS IRRIGATION DISTRICT)						0		0	9,178
TOTAL (PATTERSON IRRIGATION DISTRICT)						0		0	0
TOTAL (SAN LUIS WATER DISTRICT)						121		115	1,619
TOTAL (PANOCH/MS WATER DISTRICT)						0		0	1,312
TOTAL (MERCY SPRINGS WATER DISTRICT)						0		0	0
TOTAL (WIDREN WATER DISTRICT)						71		67	809
Other Warren Act Conveyance Credit Totals									
Del Puerto Water District:						0		0	3,076
Banta Carbona Irrigation District:						0		0	12,306
West Stanislaus Irrigation District:						0		0	1,507
Byron Bethany Irrigation District:						368		350	4,571
Patterson Irrigation District:						0		0	5,591
San Joaquin River Restoration Pump Back BCID:						0		0	0
San Joaquin River Restoration Pump Back PID:						0		0	0

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



MENDOTA POOL OPERATIONS
2022
 ALL FIGURES IN ACRE-FEET

Date: 9/13/22

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
FRESNO SLOUGH	0	86	60	87	201	298	115	15					862
TPUD	0	0	0	12	16	20	18	0					66
JAMES I.D.	141	172	97	2,476	5,320	8,496	5,833	850					23,385
MEYERS	0	177	150	49	136	199	256	161					1,128
M.L. DUDLEY & INDART ¹	0	126	159	317	373	421	403	212					2,011
MID VALLEY* (Kings River)	0	0	0	0	0	0	0	0					0
REC. DIST. 1606	0	41	0	59	75	106	114	45					440
STATE FISH & WILDLIFE	1,643	1,954	159	206	516	439	435	758					6,110
TRACTION	547	795	290	328	140	503	565	645					3,813
UNMETERED	40	140	15	10	150	40	40	45					480
Total	2,230	2,889	464	544	806	982	1,040	1,448	0	0	0	0	10,403
COELHO FAMILY TRUST ²	58	337	529	470	668	994	594	392					4,042
TRANQUILITY I.D.	0	1,877	1,226	1,719	3,626	4,742	5,400	2,756					21,346
WESTLANDS LATERAL-6	0	0	5	20	39	48	71	48					231
WESTLANDS LATERAL-7	0	0	0	0	2,093	1,324	2,058	3,177					8,652
CARVALHO TRUST	0	39	41	63	109	138	65	40					495
TOTAL	2,429	5,744	2,731	5,816	13,462	17,768	15,967	9,144	0	0	0	0	73,061

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 35,872 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 91,637 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 95,944 AF
 James Bypass Flows 0 AF

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



**MENDOTA POOL WELL PUMP IN
2022**

(ALL FIGURES IN ACRE-FEET)

Date: 9/13/2022

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
COELHO FAMILY TRUST ¹	121	163	479	672	746	832	1,419	863					5,295
M.L. DUDLEY & INDART ²	20	16	282	68	198	325	294	309					1,512
FORDEL	0	294	339	419	443	339	320	89					2,243
COELHO WEST	0	0	19	0	143	201	183	151					697
CASACA VINYARDS	0	0	117	0	94	121	107	92					531
DPF	0	0	0	0	64	107	90	36					297
SOLO MIO	0	0	0	0	27	59	55	51					192
BAKER FARMS	0	0	0	105	318	401	368	0					1,192
FARMERS W.D.	0	0	0	331	645	899	1,054	0					2,929
MEYERS	0	186	172	51	93	100	227	169					998
MEYERS BANKED	0	559	1,579	306	0	131	1,256	1,346					5,177
SILVER CREEK	0	0	0	0	53	120	108	94					375
TRANQUILITY I.D.	0	0	0	0	0	1,714	2,245	1,540					5,499
FCWD	0	0	0	80	273	333	355	148					1,189
YRIBARREN FARMS	0	0	0	32	172	4	17	0					225
CARVALHO TRUST	0	0	23	180	8	0	0	0					211
ETCHEGOINBERRY	0	0	0	0	225	280	102	286					893
FRESNO SLOUGH W.D.	0	0	0	0	0	234	179	145					558
LSK-1	0	0	27	6	288	129	147	183					780
TOTAL	141	1,218	3,037	2,250	3,790	6,329	8,526	5,502	0	0	0	0	30,793

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

¹ aka TERRA LINDA FARMS

² aka COELHO-GARDNER-HANSEN

April 2022 Etchengoinberry transferred 150 AF non-project water to FCWD

Spill Back Credit

James ID (per JID)

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
141	269	2447	3541	4501	4433	486	64	0	0	0	0	15882

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

AUGUST 2022

REACH TOTALS	POOL	INFLOW INTO AQUEDUCT	CUSTOMERS	AMOUNT IN AF	
R3A 11162			Parks & Rec. @ San Luis Reservoir	0	
			Santa Clara Valley Water District	11162	
			Casa de Fruta (Santa Clara Valley Water District)	0	
			San Benito Water District	0	
R3 465	13		DFG @ O'Neill Forebay	23	
	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	442	
R4 9682	14		City of Dos Palos	144	
	14		Pacheco Water District	160	
	14		San Luis Water District	3689	
	14		Panoche Water District	35	
	15		San Luis Water District	1318	
	15		Panoche Water District	1303	
	15		Westlands Water District	3033	
R5 10657	16		DFG @ Lat. 4L (Pilibos)	0	
	16		DFG @ Lat. 4L	0	
	16		DFG @ Lat. 6L	0	
	16		DFG @ Lat. 7L	0	
	16	3341	Westlands Water District	3057	
	17		Westlands Water District	1736	
	18		City of Coalinga	424	
	18		Pleasant Valley Pumping Plant	3281	
	18	248	Westlands Water District	2159	
R6 2428	19		Alta Gas	2	
	19		City of Huron (P&R-Area 11) @ Lat. 22R	3	
	19		DWR Water Truck @ 22R/F&G @ Lat.22R	0	
	19		Lemoore N.A.S. thru WWD 28L,29L,&30L	0	
	19		Kings County thru WWD 30L	0	
	19		Westlands Water District	2423	
2370	20		City of Huron @ Lat. 23R	96	
	20		DWR Water Truck @ 23R	0	
	20		Westlands Water District	1733	
	21		City of Avenal	221	
	21		Kings County thru WWD 37L,38L	0	
	21		Westlands Water District	320	
36764		3589	<---TOTALS--->	36764	
TOTALS BY CUSTOMERS					
Inflow Into Aqueduct:					
3589 AF TOTAL Pump-In				Pacheco Water District	160
3410 AF TOTAL Reported for Credit				San Luis Water District	5449
				Panoche Water District	1338
				Westlands Water District	17742
				AltaGas	2
				City of Huron @ LAT. 23R	96
				City of Huron (P&R/Area 11 @ 22R)	3
				Lemoore N.A.S. thru WWD @ 28L,29L&30L	0
				Kings County thru WWD Laterals in Pools 19 - 21	0
				City of Avenal	221
				City of Dos Palos	144
				City of Coalinga	424
				DFG @ O'Neill Forebay	23
				Pacheco Tunnel	11162
				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	0
Pool 12 - Reach 2B				Customers Total:	36764
VA Turnout Use AF = 51					
DWR 3137(Rev.9/15)					36815



Monthly Availability Report

CW "Bill" Jones Pumping Plant

August - 2022

Unit #	Max Hours	Scheduled Outages (1)	%	Unscheduled Outages (2)	%	Over-all Availability %	Starts	Comments
							Pump	
Unit-1	744	0.0	0.00%	3.5	0.47%	99.53%	4	
Unit-2	744	0.0	0.00%	0.0	0.00%	100.00%	0	
Unit-3	744	0.0	0.00%	0.0	0.00%	100.00%	0	
Unit-4	744	744.0	100.00%	0.0	0.00%	0.00%	0	
Unit-5	744	418.0	56.18%	71.9	9.66%	34.16%	3	
Unit-6	744	303.9	40.85%	0.0	0.00%	59.15%	1	
Total	4464	1465.9	33%	75.4	1.69%	65.31%	8	

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
August - 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	0	
Unit-2	744	0.0	0.00%	0.0	0.00%	100.00%	2	2	
Unit-3	744	120.0	16.13%	449.5	60.42%	23.45%	0	0	
Unit-4	744	0.0	0.00%	566.7	76.17%	23.83%	2	1	
Unit-5	744	0.0	0.00%	0.0	0.00%	100.00%	1	0	
Unit-6	744	274.0	36.83%	0.0	0.00%	63.17%	1	1	
Total	4464	394.0	9%	1016.2	22.76%	68.24%	7	4	

Notes:

(1) Planned maintenance

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



Monthly Availability Report

DCI Pumping Plant

August - 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%	1	
Unit-2	744	0.0	0.00%	0.0	0.00%	100.00%	1	
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%	1	
Total	2976	0.0	0%	0.0	0.00%	100.00%	3	

Notes:

(1) Planned maintenance

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