



January 11, 2024

To: Pablo Arroyave, Chief Operating Officer

From: Bob Martin, Facilities O&M Director

Subject: O&M Report for December 2023

### **OPERATIONS DEPARTMENT**

The C.W. "Bill" Jones Pumping Plant (JPP) operated with 2-4 units for the month of December. The average rate of pumping for the JPP was 2,971 cfs for the month.

Total pumping at the JPP for the month of December was 182,670 acre-feet. The O'Neill Pump/Generating Plant (OPP) generated 0 acre-feet, and pumped 141,715 acre-feet during the month. 0 acre-feet was pumped at the Delta-Mendota Canal/California Aqueduct Intertie Plant (DCI) and 0 acre-feet was reversed from the DCI into the DMC for the month of December.

The Federal share in the San Luis Reservoir at the end of December was 778,698 acre-feet as compared to 259,356 acre-feet for the end of December 2022.

During the month of December, releases from Friant Dam ranged from 425 to 190 cfs with 5,945 acre-feet entering the Mendota Pool. Flows for the San Joaquin River Restoration Program (SJRRP) were 8,222 acre-feet for the month of December.

### **Canal Operations Department**

The Canal Operations crews worked on the following activities this month:

- Pitot Tube flow measurements at MP's

26.21 Right	32.38 Right	42.53 Right
46.81 Left	47.37 Right	47.89 Right A

- Open Channel flow measurement at various MP's, Wasteways and River/Outlets

4.98	72.38	76.05	115.90
SJR Bifurcation			

- Serviced flow meters at DMC MP's

20.42 Left	20.43 Left	20.59 Left
21.25 Left	26.21 Right	26.89 Right
26.95 Left	30.43 Right	31.60 Right
32.38 Right	32.61 Right	32.62 Right
36.01 Left	36.39 Left	36.68 Left
39.20 Right	39.22 Left	39.78 Left
41.53 Right	42.10 Right	42.50 Right
44.22 Left "A"	44.22 Left "B"	44.24 Right
56.85 Left	69.21 Left	98.74 Left

- Bi-weekly meter readings on all active 200 plus turnouts
- Inspected Wasteways
  - Westley
  - Newman
  - Volta
  - Firebaugh
- Collected water samples at MP 10.62, 20.63, 29.95, 39.21, and 45.77
- Groundwater well soundings
  - USGS Monitoring Wells
- Routine patrols
  - DMC
  - Mendota Pool
  - San Luis Drain
- Observed operations of the Firebaugh Wasteway for releases during Mendota Pool dewatering and repairs

### **Other Activities**

The Control Operations crew performed the following switching/clearance orders this month:

- C-23-JP-63C JPP Unit 6 warranty inspection
- C-23-DM-73 DMC Check 18 lining repair
- C-23-ON-68 OPP domestic water tank rehabilitation
- C-23-JP-74 JPP Unit 2 annual maintenance
- C-23-ON-76 OPP domestic water tank rehabilitation
- C-23-JP-77 JPP Unit 2 accumulator tank PM
- C-23-JP-78 JPP Unit 6 suction elbow
- C-23-JP-79 JPP Unit 5 annual maintenance
- C-23-JP-80 JPP Unit 5 accumulator tank
- C-23-JP-81 JPP Unit 5&6 suction elbow
- C-23-DM-82 DMC Milepost 18.05 Left turnout gate replacement
- C-23-JP-83 JPP Unit 5 annual maintenance
- C-23-DM-84 DMC Milepost 31.60 Left turnout gate replacement
- C-23-JP-85 JPP Unit 5&6 tube inspection
- C-23-DCI-86 DCI 4160 bus wiring
- C-23-JP-87 JPP Unit 4 exciter slip ring
- C-23-JP-88 JPP Unit 5 exciter cleaning
- C-23-JP-89 JPP Unit 1 10" drain line leak repair

## **MAINTENANCE DEPARTMENT**

The SLDMWA Facilities Maintenance crews worked on the following projects this month:

### **Jones Pumping Plant**

#### **Electrical/C&I Maintenance Crews:**

- JPP Unit 2 AC/DC lube oil pump lockout, disconnect, and reconnect
- JPP sump and unwatering pumps controller test and inspection 6-month PM
- JPP Unit 2 dry runs for annual maintenance
- JPP Unit 2 AC/DC lube oil pump lockout, disconnect, and reconnect
- JPP Unit 5 annual maintenance PM of main motor and auxiliary systems
- JPP Station Service battery test and inspection 6-month PM
- JPP breakroom lighting upgrade and replacement
- JPP Unit 2 SPM relay failure investigation and repair
- UZ11A SEL and Basler relay setting investigation and repair
- JPP Unit controls and systems relay research and troubleshooting
- JPP Unit 4 slip ring removal, repair and replace due to an arc flash event
- JPP Unit 5 exciter removal, deep cleaning, reinstall and test

#### **Mechanical Maintenance Crews:**

- JPP Unit 6 rewind warranty 5-year stator and rotor inspection
- JPP Unit 6 annual maintenance (motor)
- JPP Unit 6 cooling water strainer gearbox rehab
- JPP Unit 5 annual maintenance (cooling water)
- JPP Unit 5 annual maintenance (motor)
- JPP Unit 5 annual maintenance (pump)
- JPP Unit 5 annual maintenance (BFV)
- JPP Unit 5 annual maintenance (post maintenance checklist)
- JPP Unit 2 annual maintenance (motor)
- JPP Unit 2 annual maintenance (post maintenance checklist)
- JPP East Discharge Tube inspection and BFV inspection
- Monorail traveling gripper rake PM
- JPP Air Wash Unit PM
- OPP Water Storage Tank Rehabilitation Project support

#### **Civil Maintenance Crews:**

- Inspect and repair minor patch in the JPP Discharge Tube #3 (East Tube)

### **O'Neill Pumping/Generating Plant**

#### **Electrical/C&I Maintenance Crews:**

- OPP annunciator panel test and inspection PM
- Installed new HVAC mini split in the OPP breakroom
- OPP general lighting repair and maintenance
- OPP phone system programming and organization
- OPP main unit SEL annunciator HMI calibration and service
- OPP emergency lighting PM
- OPP cathodic protection system test and inspection PM
- OPP compressor print modification and organization
- OPP Station Service battery internal resistance test and inspection PM
- OPP Station Service battery test and inspection PM

- OPP trash rake crane test and inspection PM
- OPP Units SEL710 and SEL300G motor protection relay review documentation
- OPP security gates test and inspection PM
- OPP Station Service battery charger test and inspection PM
- OPP ½ ton chain hoist crane test and inspection PM
- OPP 65/10 ton bridge crane test and inspection PM
- OPP 5 ton stop log gantry crane test and inspection PM
- OPP compressed air system LP test and inspection PM
- OPP Transformer Rehabilitation Pre-design meetings
- OPP security gate keypad gate code maintenance
- OPP UPS battery internal resistance test PM
- OPP Station Service dry transformer PM
- JPP Unit 4 slip ring removal, repair and replace due to an arc flash event
- JPP Unit 5 exciter removal, deep cleaning, reinstall and test

#### Mechanical Maintenance Crews:

- Fabricated new stands for the plant eyewash stations
- Interior painting of the OPP facility
- Fabricated spare spline shafts for the distributor system
- OPP Transformer Rehabilitation prep work and equipment staging
- OPP Siphon Building spare compressor rehab
- OPP low pressure air compressor test and inspection PM
- OPP 65/10 ton crane monthly test and inspection PM
- OPP sump pump inspection PM
- OPP high pressure air compressor test and inspection PM
- OPP shop cleanup and organization
- OPP Water Storage Tank Rehabilitation Project support

#### Civil Maintenance Crews:

- None to report

#### **DMC/CA Intertie Pumping Plant**

#### Electrical/C&I Maintenance Crews:

- Integrate SCADA system on pumps 3 and 4 for remote indication and control
- Check 1 upstream level detector indicator trouble shoot and repair

#### Mechanical Maintenance Crews:

- DCI Diesel generator fuel line leak investigating and repair

#### Civil Maintenance Crews:

- Monthly generator inspection PM
- Repaired and replaced fuel hoses to the DCI generator

#### **Delta-Mendota Canal**

#### Electrical/C&I Maintenance Crews:

- Check 21 electrical system inspection and repair
- LBFO HVAC system general service and repairs

#### Mechanical Maintenance Crews:

- Fabricated washers for level sensors along the DMC

### Civil Maintenance Crews:

- Mechanical weed control MP 36.61 to 46.84
- Chemical weed control MP 3.49-9.29, 25.93-39.81, 53.98-75.84, 81.69-101.27
- Trash collection from MP 17.22 to 19.17, 45.79 to 46.35, 68.57 to 68.03
- DMC turnout maintenance (silt and debris removal) from MP 4.41 to 51.04
- Check 18 damage concrete lining repairs at MP 96.82
- DMC sign repair MP 13.25, 17.22, 18.05
- Repair gates/ fences along the DMC from MP 3.12 - 39.84 and check 15,18,19
- Grading of DMC roads from MP 0.09 to 2.53
- Cleaned drain inlets at MP 39.81-42.53, 59.26
- Replaced turnout gate in meter well at MP 18.05
- Replaced turnout gate and repaired cracked pipe at MP 31.60
- DMC meter well maintenance at MP 28.89, 45.38, 55.85
- Fabricate and install handrails at MP 25.18, 48.60, 48.69, 49.43
- Class A driver training and licensing
- LBAO HVAC system inspection PM
- TFO shop and yard cleanup
- DMC erosion damage repairs at MP 115.90
- Pipe and barbwire fence fabrication and install at Corral Hollow Rd.
- Numerous vehicle oil changes and minor repairs

### Tracy Field Office

#### Electrical/C&I Maintenance Crews:

- Tracy UPS Battery test and inspection monthly PM
- TFO entry gate communication to TAO and Warehouse troubleshoot and repair
- JPP Domestic Water Treatment Plant Replacement Project
- USBR entry gate troubleshooting and repair
- Shop cleanup and organization

#### Mechanical Maintenance Crews:

- JPP Domestic Water Treatment Plant Rehab
- TFO restroom toilet PM's

#### Civil Maintenance Crews:

- Landscape and irrigation monthly PM

### Other Activities

- None to report

### USBR Support Services

The Water Authority crews supported the following work at USBR facilities during the outage this month:

- None to report

## 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

- Added U3 & U4 functionality and visibility to SCADA
- Worked on PLC construction drawings
- Network wiring landed and tested
- Worked on wiring discharge valve controls for U3 & U4 SCADA
- OPP SCADA/user station server upgrade
- DMC work on PLC replacement plan for check structures
- DMC check motor replacement
- Site grading support at JPP Water Treatment Plant Building
- OPP trash rack for industrial water inlet
- JPP unit wheel pit float switch replacements
- DCI HV bushings replacement – issued purchase orders for bushings
- Control board troubleshooting assistance
- JPP East Discharge Tube inspection

### **Land Management Activity Summary:**

The Engineering staff issued three (3) Access Permits this month:

- Access Permit P2402034 issued to the California Department of Fish & Wildlife to temporarily access the Delta-Mendota Canal right-of-way to search, trap, and remove Nutria
- Access Permit P2402035 issued to Del Puerto Water District for a temporary turnout/truck filling station at MP45.78-R
- Access Permit P2402038 issued to Caltrans allowing them to perform underwater bridge inspections for Pool 19 on the Delta-Mendota Canal

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

- Orestimba Creek Recharge Project
- San Joaquin County Pacific Gateway Project, EIR public comments
- Land lease request from South Valley Water Resources Authority
- PID new proposed turnout near MP 43.25
- Santa Nella WD pipeline installation
- Caltrans bridge inspection report management
- Costco HOM property development

### **SAFETY DEPARTMENT**

The Safety Department worked on the following items this month:

- Provided Job Hazard Analysis support to the crews
- Sent out Safety Topics for the month of December to all SLDMWA staff:
  - 12-1-2023 Job Safety Analysis
  - 12-2-2023 Accident Investigation
  - 12-3-2023 Pay Attention to Distractions
  - 12-4-2023 I Could Have Saved a Life That Day
- Provided Safety Message for December 2023 Newsletter
  - Managing Sleep Feel Awake & Rested
- Scheduled annual hearing tests for selected employees
- Provided FHECP training to contractors
- Provided Confined Space Rescue standby for JPP Penstock inspection
- Provided CPR AED First Aid training to Control Operators – Daniel Bilbay, Rosalio Montijo

## **PROCUREMENT AND WORK & ASSET MANAGEMENT DEPARTMENT**

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

- WAM Manager completed staff annual PA's.
- Contracts/PO Agreements/LOA's Status Update:
  - F24-OPP-003 Plant Water Storage Tank Rehab – Contract executed with work ongoing. Change Order 1 processed due to unanticipated quality of the tank
  - F24-OPP-013 UPS Battery Replacement – PO 6655 issued for materials
  - F24-OPP-009 Station Battery Replacement – PO 6656 issued for materials
  - F24-ALL-006 Heavy Equipment Rental Master Agreement – Pre-solicitation stage, Scope of Work (SOW) being developed
  - F24-DMC-010 Diving Services Master Agreement – Pre-solicitation stage, developing SOW for contract
  - F24-ALL-005 Biological Survey Master Agreement - Pre-solicitation stage, SOW being developed for contract
  - F24-TFO-002 Fuel Delivery Master Agreement – Pre-solicitation stage
  - F24-TFF-016 Wood Grinding and Pole Disposal Contract – Work ongoing
  - F24-ALL-020 Fire Sprinkler Inspection – Pre-solicitation stage, pending SOW update from Project Manager
  - F24-JPP-025 JPP Pipe Inspection – Ongoing service
  - F24-TFO-024 Tracy Warehouse Roof Reseal – Awarded and Contract Executed on 12/11/23
  - F24-LBAO-029 Auditing Services – Proposal received, Notice of Intent to Award delivered on 12/21/23, pending Board approval.
  - F24-JPP-030 JPP Unit 6 Rotor Repair – Contract executed on 12/11/23
  - F23-ALL-016 NetSuite Support Services – Second Amendment signed on 12/14/23 for an additional 1 year term extension with contract value increasing to a total of \$70,000.00
- 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/updating 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
  - Weekly Shepherd meetings
  - Bi-weekly COO staff meetings

## **INFORMATION TECHNOLOGY DEPARTMENT**

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

### Administrative Activities:

- Monthly FAC, WRC and BOD meetings with Zoom
- Creating policies for BYOD with Legal
- FY25 RO&M budget
- Created Budget to Actual reports within NetSuite specific to IT EO&M
- Started new MS Project to track/schedule EO&M activities for FY25

### General Network & Desktop Support:

- IT Staff on vacation last week of December; SCADA team and outside support assisted with routine repairs and support with remote assistance from IT Officer
- Completed Sexual Harassment training
- Configured Knowbe4 Phishing Campaign and additional end user Email Training to begin Jan 2024
- Desktop support calls
- Firewall firmware updates
- Research abnormal network activity as reported by Darktrace
- LBAO Board Room sound troubleshoot
- Server Security updates
- Added new Roles to AD Server in Sacramento office
  - Prepped for file history (laptop backups)
- Configured additional AT&T Portals
  - Set all invoices to be emailed to [accounts.payable@sldmwa.org](mailto:accounts.payable@sldmwa.org)
  - Created additional portal access for employees
- Installed additional 2 post rack in server room to move network communications equipment from inside of cabinet to be removed from service

### Ongoing:

- NetSuite
  - User and Administration
  - Bi-Weekly Implementation Team meetings
  - Monitor Citrin Cooper support activities for NetSuite
- Shepherd
  - Weekly progress meetings
- Server refresh prep for deployment to LBFO and OPP
  - WAM Servers, prepping for redeployment
- Cybersecurity
  - Monitor Symantec Anti-Virus Management Console
    - Update Symantec or move to Sentinel One
  - Security updates on Servers
  - Monitor Firewall
  - Monitor Darktrace appliance reporting
  - Update additional AV security settings
  - (MFA) Multi Factor Authentication vendor SurePassID
    - Installed “live” MFA Server after purchase of licenses
  - Cyber Security training and webinars



- Cyber Readiness Institution Certification Course
- Cyber Security Team
  - Cyber Security Incidence Response Plan
  - Disaster Recovery Plan
  - Business Continuity Plan
- Monitor IBM (MAAS360) Mobile Device Management
- Review Infragard dispatches – FBI Cyber Security group
- Monitoring Darktrace Cyber Security appliance in IT network
  - Advanced configurations IT/OT
- Continue to Troubleshoot Email autodiscover issues
- Deployment of Office 2021
- Gate control planning
  - Tracy gate materials ordered
  - Trofholts (vendor) will tie controls into newly installed security system
- DWR regarding use of Fiber from a 1992 contract agreement
- Document management evaluating quotes
- Logistical and technical support provided to Trofholz, new site security installation vendor hired by USBR
- Review quotes for surface and laptop refresh cycle

## **HUMAN RESOURCE DEPARTMENT**

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

### **General Administrative Activities:**

- Active Recruitments
  - None to report
- Closed Recruitments
  - Equipment Mechanic (Los Banos)
- Candidates Selected
  - Continued review of applicants
- Skills Testing
  - None to report
- New Hire Orientations
  - None to report
- Draft RFP for total compensation survey

### **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 tracking/reporting
- Affirmative Action report tracking

### **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 (USB)
- 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 (\$40k estimate), which is currently scheduled to be completed with the erosion repair. Scheduling for the erosion and liner repairs under the bridge abutment was planned during the Mendota Pool Dewatering, however an emergency repair of the concrete liner at Check 18 took priority. Further planning and discussions are required. 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 (Project) and is managing the \$2.4M CDM Smith Feasibility Study contract, and the \$2.7M Terracon Geotechnical contract. The Feasibility Study is in the final stages, awaiting review comments from Reclamation Policy. CDM Subconsultants submitted the Wetland Delineation and Archeological reports, and staff will begin reviewing these reports and submit comments where applicable. These documents support the environmental and permitting efforts and have no bearing on the Feasibility Study. CDM was asked to prepare a proposal to amend the existing contract to explore funding availability to assist in the cost of the Project. The Proposal is a no cost contract change due to available budget and anticipated to be issued in the next month. Geotechnical consultant Terracon has completed all field explorations and has demobilized. Terracon/USBR/WA met to discuss coordination topics as the focus transitions to the lab testing and reporting portion of the contract. It is anticipated to utilize a consultant to prepare foundation design recommendations to be utilized in the Final Design, with discussions started with Terracon. In anticipation of multiple bridge raises, staff will begin reviewing Caltrans requirements and preparing a solicitation for a multi-disciplined consultant to assist with managing the bridge design deliverables necessary to gain Federal Highway Administration funding for the subsidence project. The deliverables are typically prepared years in advance of project approvals.

Numerous design data collection efforts have been coordinated and continue to be discussed. USBR visited the Lower DMC to assess conditions of the DMC embankments during the planned Mendota Pool dewatering. .

Staff & USBR finalized a funding agreement and project management plan for the final design of the Upper DMC rehabilitation. The first installment of \$2M to TSC is currently being processed.

The SLDMWA continues to provide support to Reclamation as they manage the construction contract with Unico Services to install the two additional pumps at

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

the DMC/CA Intertie Pumping Plant (DCI). All field work and commissioning has been completed. USBR is awaiting spare parts from the contractor to issue final acceptance. SLDMWA activities to integrate the pumps into SCADA are in progress and expected to be completed mid January.

### DMC Turnout Flowmeter Upgrade Program – Phase 3 (FY23)

Status: The contract agreement for the needed flowmeters in phase 3 has been executed with the notice to proceed issued to McCrometer in November. In this final phase, 50 flowmeters are scheduled to be upgraded. The delivery of the flowmeters will be carried out in batches, with the first batch expected to be delivered in January. The contract agreement is set to be completed by summer 2024.

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

Status: Completed

### DMC D/S Check 18 Concrete Lining Repair, MP96.82 (ERF)

Status: Staff completed the repairs to the site the first week of December. Site restoration was completed, with the project reports and billing being processed. The final construction date was 12/1 and site restoration on 12/8. The project remained under budget from estimate provided to the Board for this site.

### DMC Concrete Lining Repair and Farm Bridge Abutment Stabilization, MP41.49 (ERF)

Status: Use of the Emergency Reserve Fund was approved by Reclamation in November. Site work will be scheduled when flows decrease in the Upper DMC.

## **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 (LOA). The 100% design package (SpecB) is scheduled for completion in February 2024. Once received, SLDMWA staff will begin putting together the solicitation package. SLDMWA has received notice that the application for \$25M of BIL (Aging Infrastructure) funding was approved and is working with Reclamation on repayment details. A public repayment negotiation was held by Reclamation on 12/20/2023. An additional technical session is anticipated to occur in January.

### JPP Wear Ring Purchase (FY22)

Status: No activity

### JPP Unit No. 3 Rewind

Status: Jones Unit 3 Rewind Project is complete. Reclamation is preparing the substantial complete letter and acceptance of the performance test results. Staff has prepared and submitted the final invoices for the project to the USBR and is awaiting repayment.

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

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

Status: No activity this month. 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, other damaged components. CVO has provided approval for the two unit outage (U2 & U6). These units are the units connected to the UZ11A Switchgear Building.

Powell started on the repairs for UZ11A on September 18, 2023 and completed them on September 26, 2023. SLDMWA supported Powell with tools, operating heavy equipment, and technician assistance with relay tests. Tasks included replacing bushing box, one set of CTs, bus bars and connections, surge arresters, modifications to seal bottom openings, installing rain hoods, electrical tests of protective relays, power circuit breakers, PTs, CTs, ammeters, voltage circuits, and CT circuits. Powell and SLDMWA worked through the week days and Saturday.

Commissioning was performed September 27<sup>th</sup> to 30<sup>th</sup> and several issues were encountered with the PTs, the relay settings, and with how the information transmits to WAPA. In order to make the pumps available again, the power was again routed through the adjacent switchgear building as a temporary configuration.

Test Reports for the CTs, PTs, breakers, protective relays, and buses have been received. A meeting was held with Reclamation and Powell to detail the repairs needed and checked works that have yet to be completed. Powell is scheduled to mobilize back to resolve all outstanding issues the week of January 8, 2024.

### 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 approximately 90% complete pending internal review, with the design drawings 100% complete. Once all technical specifications have been completed, a schedule will be developed for the solicitation and construction phases.

### Jones Pumping Plant Unit 6 Rewind Warranty Inspection

Status: JPP Unit 6 was due for its 5 year warranty inspection following its rewind which was completed in 2018. The rotor was removed and placed in the Machine Shop for the inspection. NEC completed the inspection of the stator; no problems were noted other than slight damage to the air gap sensors installed during the contract work. NOTE: These sensors were only installed on Unit 6. Engineering staff recommended the sensors be removed due to them being inoperable and the potential of causing additional damage if they became dislodged. The

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

sensors were removed by NEC and no damage was observed to the stator. The unit rotor inspection was conducted and it was observed that there were several cracks in the lower amortisseur shorting ring (original equipment), these shorting bars were not replaced during the rewind and it is recommended that they be replaced before the unit is returned to service. An emergency work order has been authorized by the Board of Director's for the repair and work will be contracted to NEC and the on-site work is scheduled to begin in February 2024. The 8 week delay in starting this work was due to long lead times to procure the material needed for the repair. Unit 6 should be returned to service by March 2024.

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

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

Status: SLDMWA is currently in contract with Cal Electro Inc. (CEI) to complete the OPP Main Transformers Rehabilitation. The contract was awarded to CEI on May 10<sup>th</sup> and the Notice to Proceed was issued on May 18<sup>th</sup>. SLDMWA entered into a Professional Services Agreement with DHR Hydro Services Inc. to provide project management services for the duration of the CEI contract. Onsite construction is planned during April and May 2024 during a 45-day system outage at OPP, pending favorable hydraulic conditions.

To date, CEI has finalized configurations for ProCore (CDMS) and provided submittals for arresters, high side bushing, relays, and fan kit for the cooling system, and Baseline Schedule. TSC has reviewed and approved the high side bushing, preapproved the fan kit pending fan controls, and arresters are to be corrected and resubmitted. Protective Relays have been received. CEI and DHR are working together on the issues with the bushings and Pennsylvania Transformers (PTI) in an effort to keep the contract schedule intact. Additional inspection on the spare transformer is planned in December which will not require an outage. CEI, TSC, & SLDMWA continued to work on submittals required for the inspection, pre-design meeting, materials, and designs.

The Pre-design meeting was held with Reclamation TSC, CEI, DHR, and SLDMWA. Two days were spent detailing the construction schedule that meets the 45-day outage, and double checking the material list. A 2<sup>nd</sup> oil processing rig has been added in order to meet the outage schedule.

#### **OPP Unit Rehabilitation Project (Previously Pump Bowl Modification & Replacement)**

Status: The Water Authority is moving forward with the projects included in the 10 Year Plan, with many of them identified to be included in an upcoming BIL application. Last month staff developed design and construction cost estimates for the following projects; 1. Unit Woodward Governor Replacement, 2. Unit Rotor & Stator Rewind, 3. Pump Bowl Replacement Program, and 4. Pump Assembly & Penstock Rehabilitation Program. This month, staff worked closely with Reclamation as they completed Certified Cost Estimate Executive Summaries (CCEES) on the projects to include in the BIL applications.

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

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

Status: Staff has issued a PO to purchase the materials required for the replacement, with the installation planned to take place during the already planned OPP outage in the spring. Further discussions are required to determine the scope of work for the installation.

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

Status: Staff has issued a PO to purchase the materials required for the replacement, with the installation planned to take place during the already planned OPP outage in the spring. Further discussions are required to determine the scope of work for the installation.

### OPP Plant Water Storage Tanks Rehabilitation (FY24)

Status: The contract was completed the week ending 12/1/23. The final invoices and reports have been completed.

### OPP Cooling Water System Rehabilitation Design (FY24)

Status: Design will be performed using internal staff. Rehabilitation is anticipated to be a replacement in kind, with minor modernizations and improvements. Because in-depth design services will not be required, the Board has approved a portion of the design budget to be allocated to supplement construction agreement costs of the OPP Plant Water Storage Tanks Rehabilitation. Upgrades of the installations are planned to occur during the OPP Transformer Rehabilitation outage next Spring and staff is focusing on purchasing the long lead items. Planning of the modernizations and improvements that will be performed during the OPP Transformer Rehabilitation outage are underway.

### OPP Sand Filter System Rehabilitation Design (FY24)

Status: Preliminary planning activities have begun. Staff have explored the options to replace the existing tanks in-kind, or to rehabilitate the existing tanks in place. Due to the geometry of the configuration, both options present significant difficulties. During original installation, the tanks were placed prior to pouring the floor above, making it impossible to install new tanks without significant torching and welding efforts. In addition, the tanks are placed very close together giving little room to complete rehabilitation-in-place within a timely manner. In response to these difficulties, staff is exploring installing a new filter technology that incorporates a much smaller footprint, through a pilot study. The plan is to install a VAF, V-1000 self-cleaning screen filter at the JPP to test the performance of this system. If successful, the SLDMWA will present the performance results to USBR for consideration as an alternate to the existing sand filter system. Due to the available space at the Jone's Pumping Plant (JPP), the pilot plant will be installed at JPP. Incidental materials are being ordered that will support the installation of the V-1000 unit in early February 2024.

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

### **TRACY FACILITIES (TFO)**

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

Status: Project is nearing completion. The primary water treatment equipment including the multi-media filters, GAC filters, and the membrane skids have been replaced. The building has been rehabilitated with a new roof and paint, and the site has been regraded to prevent flooding of the building. The California State Water Board inspected the new plant on December 18, 2023 and the list of corrective actions were minor and will be addressed by March 2024. Upgrades to the controls both locally and through the SCADA system are underway and are scheduled to be completed by February 2024.

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

Status: Site work was completed in October. Received final invoice from American Asphalt and was submitted to accounting for payment.

### **MULTIPLE FACILITIES**

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

Status: No activity this month. The analysis was conducted by Reclamation TSC through a LOA. The onsite surveys for TFO, LBFO, and DCI were completed in September 2022. Final report for LBFO Arc Flash Hazard Analysis has been received. Draft report for DCI Arc Flash Hazard Analysis has been reviewed and responded with feedbacks. TFO Arc Flash Hazard Analysis will be reviewed upon receipt.

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

Status: Staff is close to finishing this project, with the following tasks in progress:

- Developing plan for testing the security, speed, and proper use of DWR fiber
- Developing plan to implement CISA and federal cyber security mandated requirements with the least amount of system downtime.
- Developing ideas for add-on boards to display current conditions on the canal and throughout the plants.
- Testing new SCADA software solutions to see if fully capable to handle our SCADA needs and to see ROI to lowering our yearly support contract
- Testing redundant server solution for the future.





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

*NOTE: ALL FIGURES ARE IN ACRE FEET*

	<b>November-2023</b>	<b>November-2022</b>
JONES PUMPING PLANT - PUMPED	131,371	80,602
DCI PLANT - PUMPED	0	0
DCI PLANT - RETURNED	0	0
O'NEILL P/G PLANT - PUMPED	57,874	14,677
O'NEILL P/G PLANT - GENERATED	3,575	14,395
DMC DELIVERIES	16,767	23,540
RIVER/WELL/RECYCLE WATER INTO DMC	3,411	5,194
MENDOTA POOL DELIVERIES	64,494	61,471
SHASTA RESERVOIR STORAGE	3,074,700	1,398,800
SAN LUIS RESERVOIR STORAGE	1,149,651	514,265
* FEDERAL SHARE	708,035	190,504
	<b>November-2023</b>	<b>November-2022</b>
*SAN LUIS UNIT DELIVERIES	2,744	1,581
SAN LUIS UNIT WELL WATER	0	0
SAN FELIPE UNIT DELIVERIES	3,373	23

Jones Pumping Plant monthly average = 2,204 cfs



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

Date: 12-18-23  
Revised 12-20-23

<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>131,371</b>			
<b>Total Pumped @ DCI</b>	<b>0</b>			
<b>Total Reversed @ DCI</b>	<b>0</b>			
City of Tracy		0	874	874
Byron Bethany I.D.		87	2	89
West Side I.D.		0	0	0
Banta Carbona I.D.		0	0	0
West Stanislaus I.D.		1,490	0	1,490
Patterson I.D.		18	0	18
Del Puerto W.D.		1,508	14	1,522
Central California I.D. - above check #13		92	0	92
San Luis W.D.- above check #13		0	0	0
Volta Wildlife Mgmt. Area (Fish & Game)		1,201	0	1,201
Fish & Wildlife (Volta) Santa Fe - Kesterson		0	0	0
Grasslands W.D. (Volta)		1,959	0	1,959
<b>Total Pumped @ O'Neill PP</b>	<b>(57,874)</b>			
<b>Total Generated @ O'Neill PP</b>	<b>3,575</b>			
Central California I.D. - below check #13		346	0	346
Grasslands W.D. (76.05-L)		4,460	0	4,460
Fish & Game Los Banos Refuge (76.05-L)		685	0	685
Fish & Wildlife Kesterson (76.05-L)		758	0	758
Freitas Unit (76.05-L)		811	0	811
Salt Slough Unit (76.05-L)		858	0	858
China Island (76.05-L)		601	0	601
San Luis W.D. - below check #13		211	0	211
Panoche W.D.		682	2	684
Eagle Field W.D.		16	0	16
Oro Loma W.D.		0	0	0
Mercy Springs W.D.		0	0	0
Firebaugh Canal W.D. (D.M.C.)		18	0	18
Firebaugh Wasteway releases (SJRRP)		74	0	74
River and Groundwater well pump-in	1,205			
North Valley Regional Recycled Water Program	2,206			
Change in Canal Storage	331			
Wasteway Flushing and Spill	0			
Total Available in Delta-Mendota Canal	80,814			
<b>TOTAL DELIVERY FROM DELTA-MENDOTA CANAL</b>	<b>(16,767)</b>	<b>15,875</b>	<b>892</b>	<b>16,767</b>
Theoretical DMC Delivery to Mendota Pool	64,047			
Total DMC Metered Delivery to MP	62,761			
Estimated (Loss) or Gain in DMC	(1,286)			
Estimated % Loss or Gain in DMC	-0.93%			



**San Luis & Delta-Mendota Water Authority  
Monthly Deliveries  
November 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	62,761			
Mendota Pool Groundwater Well Pump-In	30			
(+)SJRRP Releases into Mendota Pool	8,355			
(+)Available Flood Releases from Friant into Mendota Pool	0			
(+)Other San Joaquin River Water	0			
(+)Kings River Flood Releases into Mendota Pool	0			
<u>Mendota Pool Delivery Information</u>				
<u>Exchange Contractors:</u>				
Central California Irrigation District (CCID)		17,565	0	17,565
Columbia Canal Company (CCC)		2,429	0	2,429
Firebaugh Canal Water District (FCWD)		1,995	0	1,995
San Luis Canal Company (SLCC)		2,829	0	2,829
<u>Refuge:</u>				
Conveyance Losses		3,908	0	3,908
Calif Dept of F/G-LB Unit (CCID)		625	0	625
Calif Dept of F/G-LB Unit (SLCC)		537	0	537
Calif Dept of F/G-Salt Slough Unit (CCID)		782	0	782
Calif Dept of F/G-China Island Unit (CCID)		551	0	551
US Fish & Wildlife-San Luis Refuge (SLCC)		7,703	0	7,703
US Fish & Wildlife-Freitas (CCID)		740	0	740
US Fish & Wildlife-Kesterson (CCID)		692	0	692
Grasslands WD (CCID)		2,341	0	2,341
Grasslands WD (SLCC)		1,536	0	1,536
Grasslands (Private)		1,729	0	1,729
San Luis WD Conveyance (CCID)		10	0	10
Del Puerto WD Conveyance (CCID)		0	0	0
<u>San Joaquin River Restoration Project:</u>				
SJRRP		8,341		8,341
<i>Other: (see MP Operations Report)</i>		10,181	0	10,181
<i>Total Available Water in Mendota Pool</i>	71,146			
<b>TOTAL DELIVERY FROM MENDOTA POOL</b>	<b>(64,494)</b>	<b>64,494</b>	<b>0</b>	<b>64,494</b>
*Estimated (Loss) or Gain in Mendota Pool	(6,652)			
*Estimated % Loss or Gain in Mendota Pool	-9.35%			
Total System Delivery	(81,261)			
<b>*Total Estimated System (Loss) or Gain</b>	<b>(7,938)</b>			
<b>*Total Estimated % System Loss or Gain</b>	<b>-5.40%</b>			

**Special Notes: Firebaugh Wasteway used for some SJRRP deliveries**



Jones Pumping Plant  
November - 2023

Date	# OF UNITS	TIME ON/OFF	AVG DAILY CFS
1	1-3	0801	2112
2	3	CONTINUOUSLY	2727
3	3	CONTINUOUSLY	2722
4	3	CONTINUOUSLY	2713
5	3	CONTINUOUSLY	2715
6	3	CONTINUOUSLY	2710
7	3	CONTINUOUSLY	2685
8	3	CONTINUOUSLY	2720
9	3-1-3	0656, 1905	1832
10	3	CONTINUOUSLY	2729
11	3	CONTINUOUSLY	2734
12	3	CONTINUOUSLY	2739
13	3	CONTINUOUSLY	2747
14	3-1-3	1200, 1630	2409
15	3-1-3	1200, 1600	2416
16	3-0-1-2	0800, 1200, 1600	1703
17	2	CONTINUOUSLY	1890
18	2	CONTINUOUSLY	1864
19	2	CONTINUOUSLY	1843
20	2	CONTINUOUSLY	1827
21	2	CONTINUOUSLY	1820
22	2	CONTINUOUSLY	1822
23	2	CONTINUOUSLY	1829
24	2	CONTINUOUSLY	1831
25	2	CONTINUOUSLY	1828
26	2	CONTINUOUSLY	1829
27	2	CONTINUOUSLY	1831
28	2	CONTINUOUSLY	1829
29	2	CONTINUOUSLY	1832
30	2	CONTINUOUSLY	1833
31			
<b>AVG CFS for the month</b>			<b>2204</b>



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

Date: 12/6/23  
 Revised 12/20/23

<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	12,924	12,924	1	0	BBID	0	0	0	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	46,586,806	46,606,100	1	0	BCID	0	0	0	9,500
20.42-L	46,586,806	46,606,100	1	0	USBR/FWA	0	0	0	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	1,342	1,342	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	2,150	2,150	1.03	0	DPWD	0	0	0	0
31.31-L1	87,784	87,784	1	0	WSTAN	0	0	0	0
31.31-L2	87,784	87,784	1	0	DPWD	0	0	0	0
31.31-L3	87,784	87,784	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	753	753	0.94	0	DPWD	0	0	0	0
36.80-L	1,849	1,849	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	7,102,452	7,154,958	1	0	PID	0	0	0	0
42.53-L	7,102,452	7,154,958	1	0	DPWD	0	0	0	0
42.53-L	7,102,452	7,154,959	1	0	USBR/FWA	1,205	0	1,205	7,381
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	1,496	1,496	1	0	DPWD	0	0	0	0
58.28-L	3,371	3,371	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
<b>UPPER DMC SUB TOTAL</b>								<b>1,205</b>	<b>22,620</b>



**NON-PROJECT WATER CREDITS REPORT**

(ALL FIGURES IN ACRE FEET)

November 2023 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	5,812	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	4,088	4,088	1	0	WIDREN WD	0	0	0	0
<b>LOWER DMC SUB TOTAL</b>								<b>0</b>	<b>0</b>
<b>WARREN ACT CONTRACT CREDIT TOTAL</b>								<b>1,205</b>	<b>22,620</b>
<b>TOTAL GROSS PUMP-IN</b>								<b>CREDIT</b>	
<b>TOTAL (BYRON BETHANY IRRIGATION DISTRICT)</b>						0		0	0
<b>TOTAL (BANTA CARBONA IRRIGATION DISTRICT)</b>						0		0	0
<b>TOTAL (DEL PUERTO WATER DISTRICT)</b>						0		0	0
<b>TOTAL (WEST STANISLAUS IRRIGATION DISTRICT)</b>						0		0	0
<b>TOTAL (PATTERSON IRRIGATION DISTRICT)</b>						0		0	0
<b>TOTAL (SAN LUIS WATER DISTRICT)</b>						0		0	0
<b>TOTAL (PANOCH/MS WATER DISTRICT)</b>						0		0	0
<b>TOTAL (MERCY SPRINGS WATER DISTRICT)</b>						0		0	0
<b>TOTAL (WIDREN WATER DISTRICT)</b>						0		0	0
<b>Other Warren Act Conveyance Credit Totals</b>									
<b>Del Puerto Water District:</b>						0		0	0
<b>Banta Carbona Irrigation District:</b>						0		0	9,500
<b>West Stanislaus Irrigation District:</b>						0		0	0
<b>Byron Bethany Irrigation District:</b>						0		0	120
<b>Patterson Irrigation District:</b>						0		0	0
<b>San Joaquin River Restoration Pump Back BCID:</b>						0		0	5,619
<b>San Joaquin River Restoration Pump Back PID:</b>						1,205		1,205	7,381

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: 12/11/2023

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
FRESNO SLOUGH	0	60	0	95	61	84	95	137	54	1	30		617
TPUD	0	18	0	0	0	7	19	20	5	0	0		69
JAMES I.D.	916	2,156	0	28	1,028	1,221	2,413	1,750	1,475	5,193	4,048		20,228
MEYERS	0	0	876	1,638	2,114	2,437	1,868	646	1,448	1,412	1,327		13,766
M.L. DUDLEY & INDART <sup>1</sup>	0	0	206	182	395	414	647	657	0	0	4		2,505
MID VALLEY (Kings River)	0	0	0	1,446	1,949	2,756	1,688	0	0	0	0		7,839
REC. DIST. 1606	0	0	0	0	0	0	0	0	0	0	0		0
STATE FISH & WILDLIFE	199	1,119	42	7	448	463	902	1,478	2,557	5,004	2,271		14,490
TRACTION	170	566	56	0	0	258	237	369	441	852	1,202		4,151
UNMETERED	40	125	0	0	20	90	300	350	525	250	125		1,825
<b>Total</b>	<b>409</b>	<b>1,810</b>	<b>98</b>	<b>7</b>	<b>468</b>	<b>811</b>	<b>1,439</b>	<b>2,197</b>	<b>3,523</b>	<b>6,106</b>	<b>3,598</b>	<b>0</b>	<b>20,466</b>
COELHO FAMILY TRUST <sup>2</sup>	0	18	0	474	916	1,663	994	190	526	230	448		5,459
TRANQUILITY I.D.	0	678	197	1,261	2,468	3,968	4,703	2,737	1,476	1,200	661		19,349
WESTLANDS LATERAL-6	0	0	0	0	0	0	34	0	0	0	0		34
WESTLANDS LATERAL-7	610	477	2,160	2,326	56	461	512	0	0	0	0		6,602
CARVALHO TRUST	0	0	0	41	80	91	92	49	26	52	41		472
<b>TOTAL</b>	<b>1,935</b>	<b>5,217</b>	<b>3,537</b>	<b>7,498</b>	<b>9,535</b>	<b>13,913</b>	<b>14,504</b>	<b>8,383</b>	<b>8,533</b>	<b>14,194</b>	<b>10,157</b>	<b>0</b>	<b>97,406</b>

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

<sup>1</sup> aka COELHO-GARDNER-HANSEN <sup>2</sup> aka TERRA LINDA FARMS

**Article 215 Water**

March Westlands WD 2,160 AF
March Meyers 90 AF
April Westlands WD 2,326 AF
April Meyers 90 AF
May Westlands WD 56 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
April Coelho Trust 74 AF

May Tranquility ID 2,468 AF
May Mid Valley 1,949 AF
May Meyers 2,114 AF
May James ID 1,028 AF
May Triangle T WD 1,503 AF
May Coelho Trust 613 AF
May Dudley-Indart 56 AF
June Tranquility ID 3,968 AF
June Mid Valley 2,756 AF
June Meyers 2,437 AF
June James ID 1,221 AF
June Triangle T WD 1,529 AF
June Westlands WD 461 AF
June Coelho Trust 1,303 AF

July Tranquility ID 1303 AF
July Mid Valley 1688 AF
July Meyers 1868 AF
July James ID 2413 AF
July Coelho Trust 761 AF
July Dudley-Indart 638 AF
Aug James ID 1,750 AF
Aug Tranquility ID 918 AF
Sept James ID 583 AF

Duck Clubs (Percent Full)

BECK	120	PATOS	COLE	TRANQUILITY	1 ACRE
0%	100%	100%	0%	100%	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 0 AF	James Bypass Flows 248,598 AF
June, 2023	DMC Inflow 0 A.F	James Bypass Flows 193,992 AF
July, 2023	DMC Inflow 23,852 AF	James Bypass Flows 104,100 AF
Aug, 2023	DMC Inflow 105,324 AF	James Bypass Flows 2,668 AF

Sept, 2023	DMC Inflow 93,186 AF	James Bypass Flows 583 AF
Oct, 2023	DMC Inflow 99,143 AF	James Bypass Flows 0 AF
Nov, 2023	DMC Inflow 62,761 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**

**NOVEMBER 2023**

REACH TOTALS	POOL	INFLOW INTO AQUEDUCT	CUSTOMERS	AMOUNT IN AF
R3A 3373			Parks & Rec. @ San Luis Reservoir	0
			Santa Clara Valley Water District	1593
			Casa de Fruta (Santa Clara Valley Water District)	0
			San Benito Water District	1780
R3 221	13		DFG @ O'Neill Forebay	86
	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	113
R4 8740	14		City of Dos Palos	62
	14		Pacheco Water District	343
	14		San Luis Water District	1005
	14		Panoche Water District	44
	15		San Luis Water District	605
	15		Panoche Water District	514
	15		Westlands Water District	6167
R5 36551	16		DFG @ Lat. 4L (Pilibos)	0
	16		DFG @ Lat. 4L	0
	16		DFG @ Lat. 6L	0
	16		DFG @ Lat. 7L	0
	16		Westlands Water District	9529
	17		Westlands Water District	6243
	18		City of Coalinga	915
	18		Pleasant Valley Pumping Plant	11834
R6 13351	19		Alta Gas	0
	19		City of Huron (P&R-Area 11) @ Lat. 22R	4
	19		DWR Water Truck @ 22R/F&G @ Lat.22R	0
	19		Lemoore N.A.S. thru WWD 28L,29L,&30L	150
	19		Kings County thru WWD 30L	0
	19		Westlands Water District	13197
R7 15469	20		City of Huron @ Lat. 23R	66
	20		DWR Water Truck @ 23R	0
	20		Westlands Water District	10743
	21		City of Avenal	181
	21		Kings County thru WWD 37L,38L	0
	21		Westlands Water District	4479
77705		0	<---TOTALS--->	77705
<b>TOTALS BY CUSTOMERS</b>				
Inflow Into Aqueduct:				
0 AF TOTAL for PUMP-IN				
0 AF TOTAL for FLOOD				
			Santa Nella County Water District	21
			Pacheco Water District	343
			San Luis Water District	1723
			Panoche Water District	558
			Westlands Water District	70222
			AltaGas	0
			City of Huron @ LAT. 23R	66
			City of Huron (P&R/Area 11 @ 22R)	4
			Lemoore N.A.S. thru WWD @ 28L,29L&30L	150
			Kings County thru WWD Laterals in Reach 6	0
			City of Avenal	181
			City of Coalinga	62
			City of Coalinga	915
			DFG @ O'Neill Forebay	86
			Pacheco Tunnel	3373
			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
<b>Customers Total:</b>				<b>77705</b>
Pool 12 - Reach 2B				
VA Turnout Use AF = 12				
DWR 3137(Rev.9/15)				77717



## Monthly Availability Report

CW "Bill" Jones Pumping Plant

November - 2023

Unit #	Max Hours	Scheduled Outages (1)	%	Unscheduled Outages (2)	%	Over-all Availability %	Starts	Comments
							Pump	
Unit-1	721	0.0	0.00%	0.0	0.00%	100.00%	4	
Unit-2	721	494.0	68.52%	0.0	0.00%	31.48%	1	
Unit-3	721	0.0	0.00%	0.0	0.00%	100.00%	2	
Unit-4	721	0.0	0.00%	0.0	0.00%	100.00%	1	
Unit-5	721	0.0	0.00%	0.0	0.00%	100.00%	6	
Unit-6	721	721.0	100.00%	0.0	0.00%	0.00%	0	
Total	4326	1215.0	28%	0.0	0.00%	72.00%	14	

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  
November - 2023

Unit #	Max Hours	Scheduled Outages (1)	%	Unscheduled Outages (2)	%	Over-all Availability %	Starts		Comments
							Pump	Gen	
Unit-1	721	0.0	0.00%	0.0	0.00%	100.00%	2	3	
Unit-2	721	24.7	3.43%	0.0	0.00%	96.57%	2	0	
Unit-3	721	0.0	0.00%	0.0	0.00%	100.00%	1	0	
Unit-4	721	0.0	0.00%	0.0	0.00%	100.00%	3	0	
Unit-5	721	0.0	0.00%	0.0	0.00%	100.00%	3	1	
Unit-6	721	0.0	0.00%	0.0	0.00%	100.00%	1	1	
<b>Total</b>	<b>4326</b>	<b>24.7</b>	<b>1%</b>	<b>0.0</b>	<b>0.00%</b>	<b>99.00%</b>	<b>12</b>	<b>5</b>	

Notes:

(1) Planned maintenance

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



## Monthly Availability Report

DCI Pumping Plant

November - 2023

Unit #	Max Hours	Scheduled Outages (1)	%	Unscheduled Outages (2)	%	Over-all Availability %	Starts	Comments
							Pump	
Unit-1	721	0.0	0.00%	0.0	0.00%	100.00%	0	
Unit-2	721	0.0	0.00%	0.0	0.00%	100.00%	0	
Unit-5	721	0.0	0.00%	0.0	0.00%	100.00%	0	
Unit-6	721	0.0	0.00%	0.0	0.00%	100.00%	0	
Total	2884	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