ARVIN-EDISON WATER STORAGE DISTRICT

REPORT OF DISTRICT OPERATIONS

September 2022





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Received Pipe for new Tejon Upstream Structures

WATER SUPPLY

Friant Division Central Valley Project (CVP)

- The 2022 Water Year allocation is 30% which amounts to 12,000 AF.
- Exhibit "A" provides additional supply information for 2022 Water Year supplies

San Joaquin River (SJR) Restoration Program (SJRRP)

- The 2022 Runoff Year is estimated at 1,072,000 AF of natural river runoff in the SJR watershed, which is a "Normal-Dry" year type pursuant to SJR settlement and accordingly, the SJRRP would receive a 232,470 AF of water supply
- Given the need to meet San Joaquin River Exchange Contract demands, the SJRRP was reduced to zero in April. However, once this demand was starting to be met by the Delta-Mendota Canal in July, the Restoration Administrated updated its flow recommendation to conserve remaining volume of cold water for fall and winter months. As a result, approximately 101,000 acre-feet is being released as Unreleased Restoration Flows URF (see Exhibit A for additional URF supplies)
- District's RWA credit beginning balance is approximately 90,630 AF (subject to reconciliation and staff review). RWA credits allow the District to purchase water for \$10/AF during wet periods when RWA water is declared

Shasta System CVP

• The 2022 allocation for south of Delta Ag remains at 0%

State Water Project (SWP)

• The 2022 Table A allocation remains at 5%

Kern River

• 2022 supplies are currently estimated at 25% of average

Water Bank Facilities

• Given limited initial surface supply allocations, heavy reliance on wellfields and previously banked water is expected for the 2022 Water Year (80,000 AF)

Metropolitan Water District (MWD) Program

- MWD beginning balance is 119,127 AF in water bank reserves
- The District obtained its thirteenth consecutive year approval from the State Water Resources Control Board regarding a Petition for a Consolidated Place-of-Use (CPOU) which now expires on July 21, 2023
- The CPOU petition includes the ability to exchange all types of Arvin-Edison supplies with MWD including unbalanced exchanges
- The District's 10-year NEPA documentation is complete and approved until March 21, 2024

Rosedale-Rio Bravo Water Storage District (RRBWSD) Program

- The District's 2022 beginning account balance for water held in RRBWSD is at 54,461 AF
- District anticipates receiving 10,000 AF from the program to supplement other surface water supplies

• Districts executed a "2022 Use of CVC/FKC Intertie Agreement" for the RRBWSD-Delano Earlimart banking program

Kern Delta Water District (KDWD)

- Staff continues meeting with KDWD staff to advance water management opportunities including joint partnership in groundwater recharge facilities and interconnection facilities between Forrest Frick Pumping Plant Discharge Pipeline and the Eastside Canal
- AEWSD-KDWD-RRBWSD executed a 2022 operational exchange in which AEWSD's 10,000 acre-feet from RRBWSD would be delivered via KDWD from April through September

District Partnerships

• The District has participated in water management programs with the following districts/agencies in Water Year 2022:

Chowchilla Water District	Orange Cove Irrigation District
Del Puerto Water District	Rosedale-Rio Bravo Water Storage District
Exeter Irrigation District	San Joaquin River Exchange Contractors
Fresno County	San Joaquin River Restoration Program
Ivanhoe Irrigation District	Saucelito Irrigation District
Kern Delta Water District	Shafter-Wasco Irrigation District
Kern Water Bank	Sun Pacific
Lindmore Irrigation District	Tulare Irrigation District
Lindsay- Strathmore Irrigation District	Westside Mutual Water Company

WATER DEMAND

- District surface water deliveries for the month were 12,458 AF
- The following is a summary of surface water deliveries for September 2022

	Septen	1ber 2022	Year to Date						
	Historical	2022 WY	Historical	2022 WY					
Turnout Deliveries	15,181	12,458	113,024	91,472					
In-Lieu Deliveries	-	-	-	-					
Temporary Water	-	-		-					
Spreading	-	-	-	-					
Total	15,181	12,458	113,024	91,472					

- Exhibit "B" illustrates the delivery data
- The month's peak daily in-District demand was 363 cfs, which occurred on the 7th
- Exhibit "C-1" details Canal Water Quality information
- Exhibit "C-2" presents the Aquatic Pest Control Treatments (\$370,385) for Calendar Year 2022

GENERAL

- District vehicles consumed an estimated 3,325 gallons of fuel during the month (average fuel efficiency of 13.6 mpg)
- There were 415 hours lost due to illness (including COVID-19 hours) and 168 hours lost due to on-thejob injuries with one (1) employee out on Workers' Compensation Claim
- Staff continued to assist landowners with the Drought Allocation Program including administration of the 3rd Reallocation Pool.
- Notified landowners of Winter Maintenance schedule (November 28 through December 18, 2022)
- District is experiencing more frequent theft at various District facilities including Headquarters



All Employees Attended a Fire Extinguisher Class Held on the 13th at Headquarters

- On the 13th, all employees attended a Fire Extinguisher Class
- Exhibit "D" highlights precipitation, temperature, and wind speed
- Exhibit "E" summarizes energy consumption and power demand to date and for Water Year 2022 it is expected to generate an electrical demand of approximately 118 million kilowatt hours

ENGINEERING DEPARTMENT ACTIVITIES

Routine Activities

- Review and accounting of District's water supply and related contracts
- Administration or proposals of water management and wheeling agreements
- Groundwater level surveys and associated exhibits
- Water quality testing
- ArcGIS database updates and maintenance (facilities, water service areas, boundaries, etc.)
- Inspection/evaluation and/or repair of cathodic protection rectifiers and test stations
- CIMIS station management (<u>https://cimis.water.ca.gov/Stations.aspx</u>)
- Land use/crop surveys with data entry
- Monthly/annual reports regarding water deliveries, water use, and energy use

Grants & Funding Opportunity Updates

• District **was awarded** 2020 USBR WaterSMART grant application for the Forrest Frick Pipeline/Eastside Canal Intertie at \$500,000 (with a \$500,000 local cost share) and a

grant contract was executed; the NEPA Categorical Exclusion has been completed.

- NRCS landowner incentive programs assist with implementing various conservation activities, including but not limited to, irrigation system improvements, filtration needs, water/nutrient/pest management, and engine replacement:
 - Phone (661) 336-0967
 - Website (<u>www.ca.nrcs.usda.gov</u>)
- North West Kern Resource Conservation District provides discounted on-farm irrigation distribution uniformity and efficiency testing
 - Phone (661) 281-2746
 - Website (<u>http://northwestkernrcd.org</u>)

Other Activities

- Administration and accounting of on-going water management programs
- Technical support and review of ongoing projects/studies such as:
 - Sunset Groundwater Recharge Facility (w/Kern Delta WD)
 - Coordinating power extension (PG&E, contractors, consultants)
 - Pump station and pipeline out for bids with potential award in September
 - Forrest Frick and Eastside Canal Intertie (w/ Kern Delta WD)
 - Completed environmental compliance with USBR
 - Working with PG&E on facilities extension for new service
 - Bid was awarded to W.M. Lyles Company
 - Potential Interconnections (w/ Wheeler Ridge-Maricopa WSD)
 - Coordination with both Districts' staff continued to deliver District water into the 850 Canal, which will ultimately be delivered back into AEWSD overlap lands with Wheeler-Ridge
 - Pump Replacement Program
 - Staff continues to make progress on Phase 2 of the program
 - Turnout Modification Requests
 - Temporary and/or In-Lieu Water Service Contract Requests
 - Freedom Farms
 - Frick Unit (Kern IRWMP project with application due in August)
 - Cathodic protection system upgrades
 - Pump Efficiency Testing
 - As needed for replaced pumps
 - Real Time Water Quality Monitoring
 - Remote connection for data access completed and website display is in progress
 - Intertie Pipeline Inspection
 - Coordinating potential use of pipeline diver tool with Xylem
 - Groundwater Metering
 - Coordinate warranty repairs with Manufacturer
 - Standtank Painting
 - Project management training with Engineering Technician Jose Santana
 - Notice of Completion has been executed
 - Tejon Spreading Works
 - Design repair for interbasin structure
 - Performed job interviews for new Engineering Technician position

SGMA Activities

- o Continued coordination meetings and outreach activities
- Continued review of well permits
- Attended various GSA meetings
- Development of a potential Well Mitigation Policy
- o Draft response to County's "Proof of Water" Policy
- Evaluate various Water Budget methodologies
- Development of a customized Groundwater Model for AEWSD
- Continued coordination efforts to complete South of Kern River GSP
 - Various Agreements approved and executed
 - Draft South of Kern River GSP was adopted at the "public hearing" on July 12 (posted on website <u>www.aewsd.org</u>)

Requests for Information/Easements/Planning Notices

- o Water supply
- Water costs
- Historical groundwater levels
- Monitoring well conversions
- Water quality
- Land use data
- o Easements and/or right-of-way encroachments
 - Shell Oil (Intake Canal)
 - Quad Knopf development (Intake Canal)
 - City of Bakersfield (Intake Canal)
 - Kern Delta Water District (Intake Canal)
 - PG&E (Intake Canal in two locations)
- Reviewing/responding to multiple planning notices
 - Kern County (various developments/potential facility conflicts)
- o Reviewed/responded to environmental documents, as necessary

Power Related Activities

- Assisted PWRPA consultants with
 - Power coordination and monitoring
 - PWRPA invoice and demand data changes
 - Monthly billing anomalies/meter reconciliations
 - Load forecast updates and rate analysis
 - Contract demand analysis
 - WDT 3 impact review
 - Power accounting report
 - Renewable Portfolio Standards review
- PG&E Power Safety Public Shutoff coordination
- Coordinated meter database changes with PG&E
- Reviewed long-term power management activities
 - Continued investigation of low head hydro potential (Intake Canal)
 - District Headquarters Solar construction coordination
 - Construction was completed waiting on County and PG&E for startup
 - Reviewed available local solar renewable energy certificates to Western Renewable Energy Generation Information System (credits to be used by

District/PWRPA)

- Review and coordinate Demand Response Program
- MWD power correspondence review
- District Power Master Planning and MicroGrid investigations
- Forrest Frick Pumping Plant load capacity coordination
- Coordinate long term power analysis for Sunset GW Recharge Facility
- Calendar Year and Water Year power reconciliations and summaries
- Groundwater Service Program
 - Monthly invoicing and program coordination

SPREADING WORKS OPERATIONS (WELLFIELDS AND BASINS)

- Exhibit "F" summarizes wellfield production, which totaled 4,813 AF for the month
- Exhibit "G" summarizes gross direct spreading of zero AF for the month August
- Exhibits "H-1" and "H-2" summarize current static and/or pumping water in table and graphic forms

Field	Well #	Year	HP	Reason	<u>Work</u>
Sycamore	2	1967	300	Low Production and Excess Vibrations	Pulled equipment, replacement pump install to be scheduled
Sycamore	17	1967	300	Low Production	Back in Service
Sycamore	21	1970	300	Low Production	Back in Service
Tejon	77	1966	300	Excess Vibrations	Pulled equipment, replacement pump installed
Tejon	78	1966	300	Low Production	Pulled and inspected equipment, pump install to be scheduled
Tejon	83	1970	300	Excess Vibrations	Pulled and inspected equipment, replacement pump installed, startup scheduled
Tejon	95	1998	300	Low Production and Excess Vibrations	Equipment pulled, video, replacement pump install to be scheduled

Following is a summary of repairs associated with "active" District wells:

- Five (5) out of 86 of District wells are currently out of service and consultants are reviewing repair options
 - Two (2) long-term failures in Sycamore 34 and Tejon 91

OPERATIONS DEPARTMENT ACTIVITES

Routine Activities

- Operate and monitor the District's water distribution and delivery systems including canals, wells, and reservoirs
- Monthly staff/foremen/safety meetings

- Inspected control systems at pumping plants (transducers, Cla-valves, battery back-ups, etc.)
- Assisted personnel in the repair, replacement, and/or maintenance of facilities on an as-needed basis for the following items:
 - Replaced flowmeter batteries (turnouts and wells)
 - Flushed and cleaned various turnouts and appurtenances
 - Greased turnout valve operators
 - Maintained weed control (pumping plants, turnouts, air vents, and isolation valves)
 - Changed lights and panel bulbs (as needed)
 - Inspected/replaced water quality warning labels at turnouts
 - Cleaned and/or replaced air-chamber sight glasses
 - Replaced missing locks and chains (canal gates and turnouts)
- Staff performed middle of the month and end-of-month meter readings at Interties, Wells, Turnouts, and Pumping Plants (power)

Additional Activities

- Assisted with the updating of the District's Facility Guide Book with Engineering Department, which consisted of verification of canal-side gravity turnout discharge locations
- Cross-trained staff in wellfield operations and Engineering Department water quality testing
- Continued water patrol during the prorate period
- Sprayed for wasp and spiders around wellfields and pumping plant Motor Control houses
- Perform meter accuracy and flow test (North & South turnouts)
- Responded to multiple facilities and pumping plant alarms (reset and primed laterals)
- Assisted PG&E with shutdowns for Power Demand and Response Program



Meter Replacement on Turnout W-4

- o Addressed various wellfield start-up/shut down issues
- Stencil identification numbers on turnouts, air vents, and isolation valves
- Repaired or replaced meters (Turnouts A-4, SC-H, W-4) battery replacements on wellfield meters (Unit #7and Unit #11)
- Began Winter Maintenance Project repair list

Underground Service Alert (USA) Report

- District initiated 0
- Responded to 135 USA notices to locate District underground facilities
 - 19 required markings of District facilities
 - 49 were renewals
 - 67 with no conflicts

Power Outages and/or Interruptions Involving the Following Systems

• Power outages for the month were minimal)

Laterals Prorates (number of days)

• No laterals were prorated this month

MAINTENANCE DEPARTMENT ACTIVITIES

Routine Activities

- Aquatic and terrestrial weed control (South Canal)
- Routine gardening and maintenance at Headquarters and CIMIS station
- Fence and gate repairs (Balancing Reservoir, Intake Canal, and Gosford to Panama Lane)
- Grading and water truck (Sycamore Ponds)
- Discing (Sycamore Spreading Works)
- Mowing (CIMAS Station and Sycamore Spreading Works)
- Cleared out forebays (North and South Canal)
- Assisted other Departments as needed (Mechanic, Operations, and Pump Shop)
- Conducted monthly safety meeting



No Fall Equipment Installed on Interbasin Structures (Sycamore Spreading Row 1 Pond 1)

Additional Activities

- Assisted shop building stop log and installing parts on welding trailer
- Repaired fence hit by fallen tree (Intake Canal) also repaired at (Balancing Reservoir and N1-P5)
- Set generator and pump-in (Chicken Ranch Bridge)
- Mowing (North Ponds)
- Discing at Balancing Reservoir
- Installed anchor support (Sycamore Ponds Row 1)
- o Take readings of Piezometers
- Cleaned out warehouse area
- Used dump truck and Gradall to remove build up (Bear Mountain Blvd. bridge)
- Used Grader and water truck (Tejon & North Ponds)
- Prepared and painted various facilities:
 - Lateral S64-P2

Mechanic's Shop Repair Activities

- Routine weekly inspection on the fuel tank, gas pumps, and generator
- Fleet repairs/replacement parts

Part	Repair/Replaced	Part	Repair/Replaced
Brakes	4	A/C Service	8
Starter	1	Belts	2

Tires	8	Headlights	2
Tire Repairs	3	Tail Lights	4
Rotors/Drums	2	Wiper Blades/Engine	14
/Wheel Bearings	2	Washes	14
Batteries	2	Cabin Filter	6
Fuel Filters	4	Trailer Lights/Spot Lights	4
Tune-ups	3	Routine Service	19

- Heavy Equipment Repairs
 - Repaired gang (Krause disc)
 - Installed new tires (water truck)
 - Installed new clutch (Rotary cutter)
 - Weekly inspection (gas tank and pump)

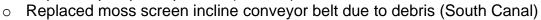
PUMP DEPARTMENT ACTIVITIES

Routine Pump Maintenance Activities

- Replacing pump packing
- Pump bearing lubrication at various pumping plants
- Maintain drip oil on District Wells
- Inspection and maintenance of air compressors
- Inspection and/or adjustment of travelling water screens/moss screens

Additional Activities

- Continued working with Engineering Department on Pump Replacement Program
 - Continued pilot testing for Phase 2 (horizontal pumps)
- Compressor and well motor/canal facilities oil changes district-wide
- Replaced pump compressor (N55-P1)



o Installed new springs and check arms on numerous valves district-wide

PUMP & MOTOR REPAIR SUMMARY

	<u>Pumping</u> Plant/Wells	<u>Unit</u>	<u>Size</u>	Time/Hours	Reason
Vertical Pumps	None to Report				
Vertical Pumps	None to Report				
Horizontal Pumps	N55-P2	1	2.5 CFS	6,700	Sleeves and bearings
Horizontal Motors	S55-P13 None to Report	2	2.5 CFS	8,200	Sleeve and bearings



Compressor Pump Repair (N55-P1)

CONTROLS DEPARTMENT ACTIVITIES

Routine Activities

- SCADA/radio maintenance or troubleshooting
- Monthly and annual inventory
- Testing and repair/replacement of distribution system and well facility electrical components as needed

Component	Replaced/Repaired	Component	Replaced/Repaired
Auxiliary Contact Block	2	Trip Units	1
Start Equipment	2	12KV Fuses	1
Hour Meters	2	Wiring	2

Additional Activities

- Programed Master SCADA Ignition Pro Designer software, updated graphic designs for pumping plants
- Worked with CEI and Aspect technicians to troubleshoot the "loss of signal" and "communication shutdown" alarms (Lateral S73-P2)
- Worked with GIGA Electrical to install UPS battery backup, power fail indicator lights and control relays for power "fail" alarm (Laterals S73 and S93)
- Assisted Agilitech crew to replace bad lights at Sycamore Wells and repaired vandalized electrical cable from N1-P5 Unit #1 & #2

FORREST FRICK PUMPING PLANT



New Bowl Assembly (Howard Frick Pumping Plant)

- 7,491 AF of water was pumped during the month
- Consultants are designing reverse flow facilities into the Intake Canal to assist in regulating wellfield production during shoulder months to increase peaking water supplies

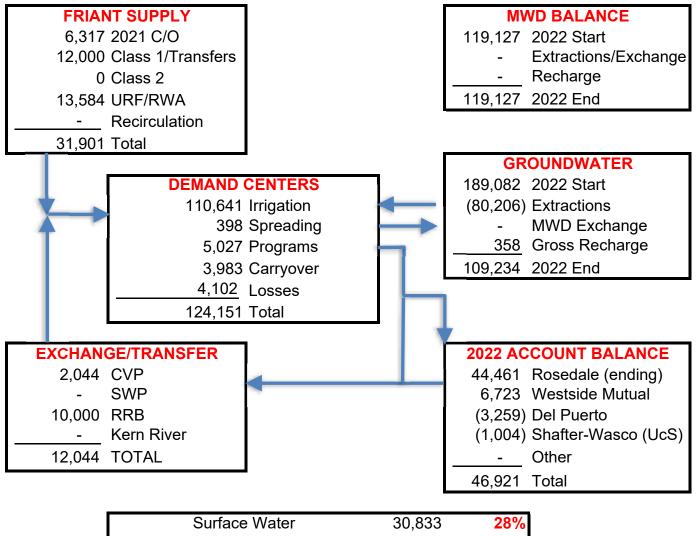
HOWARD FRICK PUMPING PLANT (AQUEDUCT INTERTIE)

• There was no import (gravity delivery) or export (pumped delivery) of water (0 AF) through the Howard Frick Pumping Plant/Pipeline.

EXHIBIT "A-1" ARVIN-EDISON WATER STORAGE DISTRICT 2022 WATER SUPPLY AND DEMAND

FRIANT-KERN (F-K) G.ARRYOVER OF 2021 WATER 6.317 30% OF 311,675 AF CLASS 1 12.000 0% OF 311,675 AF CLASS 2 0 0% OF 31,675 AF CLASS 1 1581 PRIORITY URF 4.403 TRANSFER IN URF (ISID) 100 SUBTOTAL 3.3045 EXETER IO -283 LINDMORE ID -214 ORANGE COVE ID -203 SAUCELITO ID TOTAL F-K 0 ORANGE COVE ID 0 -106 SLE 202 RECIRCULATION 17 LINDMORE ID -100			<u>AF</u>	<u>%</u>
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DEMANDIRRIGATION DEMAND (MARCH-SEPTEMBER)91,47376.8%IRRIGATION DEMAND (OCTOBER-FEBRUARY)19,16816.1%SPREADING (MARCH-SEPTEMBER)3980.3%SPREADING (OCTOBER-FEBRUARY)00.0%CARRYOVER TO 20233,9833.3%LOSSES/METERING INACCURACIES4,1023.4%	KERN DELTA WELLS KERN DELTA CENTRAL TOTAL IMPORT GROUNDWATER PUMPING IRRIGATION DEMAND FARM PUMP IN		7,331 2,669 10,000 38,918 80,206 0 0	8.4% 32.7%
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SPREADING (MARCH-SEPTEMBER)3980.3%SPREADING (OCTOBER-FEBRUARY)00.0%CARRYOVER TO 20233,9833.3%LOSSES/METERING INACCURACIES4,1023.4%	KERN DELTA WELLS KERN DELTA CENTRAL TOTAL IMPORT GROUNDWATER PUMPING IRRIGATION DEMAND FARM PUMP IN RETURN TO MWD TOTAL WATER SUPPLY DEMAND	TOTAL PUMPING	7,331 2,669 10,000 38,918 80,206 0 80,206 119,124	8.4% 32.7% 67.3% 100.0%
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CARRYOVER TO 2023 3,983 3.3% LOSSES/METERING INACCURACIES 4,102 3.4%	KERN DELTA WELLS KERN DELTA CENTRAL TOTAL IMPORT GROUNDWATER PUMPING IRRIGATION DEMAND FARM PUMP IN RETURN TO MWD TOTAL WATER SUPPLY DEMAND IRRIGATION DEMAND (MARCH-SE IRRIGATION DEMAND (OCTOBER-	TOTAL PUMPING PTEMBER) FEBRUARY)	7,331 2,669 10,000 38,918 80,206 0 80,206 119,124 91,473 19,168	8.4% 32.7% 67.3% 100.0% 76.8% 16.1%
LOSSES/METERING INACCURACIES 4,102 3.4%	KERN DELTA WELLS KERN DELTA CENTRAL TOTAL IMPORT GROUNDWATER PUMPING IRRIGATION DEMAND FARM PUMP IN RETURN TO MWD TOTAL WATER SUPPLY DEMAND IRRIGATION DEMAND (MARCH-SE IRRIGATION DEMAND (OCTOBER- SPREADING (MARCH-SEPTEMBER	TOTAL PUMPING PTEMBER) FEBRUARY)	7,331 2,669 10,000 38,918 80,206 0 80,206 119,124 91,473 19,168 398	8.4% 32.7% 67.3% 100.0% 76.8% 16.1% 0.3%
	KERN DELTA WELLS KERN DELTA CENTRAL TOTAL IMPORT GROUNDWATER PUMPING IRRIGATION DEMAND FARM PUMP IN RETURN TO MWD <u>TOTAL WATER SUPPLY</u> <u>DEMAND</u> IRRIGATION DEMAND (MARCH-SE IRRIGATION DEMAND (OCTOBER- SPREADING (MARCH-SEPTEMBEF SPREADING (OCTOBER-FEBRUAR	TOTAL PUMPING PTEMBER) FEBRUARY)	7,331 2,669 10,000 38,918 80,206 0 80,206 119,124 91,473 19,168 398 0	8.4% 32.7% 67.3% 100.0% 76.8% 16.1% 0.3% 0.0%
	KERN DELTA WELLS KERN DELTA CENTRAL TOTAL IMPORT GROUNDWATER PUMPING IRRIGATION DEMAND FARM PUMP IN RETURN TO MWD TOTAL WATER SUPPLY DEMAND IRRIGATION DEMAND (MARCH-SE IRRIGATION DEMAND (OCTOBER- SPREADING (MARCH-SEPTEMBEF SPREADING (OCTOBER-FEBRUAR CARRYOVER TO 2023	TOTAL PUMPING PTEMBER) FEBRUARY) X)	7,331 2,669 10,000 38,918 80,206 0 0 80,206 119,124 91,473 19,168 398 0 3,983	8.4% 32.7% 67.3% 100.0% 76.8% 16.1% 0.3% 0.0% 3.3%
	KERN DELTA WELLS KERN DELTA CENTRAL TOTAL IMPORT GROUNDWATER PUMPING IRRIGATION DEMAND FARM PUMP IN RETURN TO MWD TOTAL WATER SUPPLY DEMAND IRRIGATION DEMAND (MARCH-SE IRRIGATION DEMAND (OCTOBER- SPREADING (MARCH-SEPTEMBEF SPREADING (OCTOBER-FEBRUAR CARRYOVER TO 2023	TOTAL PUMPING PTEMBER) FEBRUARY) X)	7,331 2,669 10,000 38,918 80,206 0 0 80,206 119,124 91,473 19,168 398 0 3,983	8.4% 32.7% 67.3% 100.0% 76.8% 16.1% 0.3% 0.0% 3.3%

Exhibit "A-2" ARVIN-EDISON WATER STORAGE DISTRICT 2022 WATER MANAGEMENT



Surface water	30,833	20%
Groundwater (50% of Max)	80,206	72%
Projected Irrigation Demand	111,039	100%

EXHIBIT "B" ARVIN-EDISON WATER STORAGE DISTRICT 2022 WATER YEAR DELIVERIES

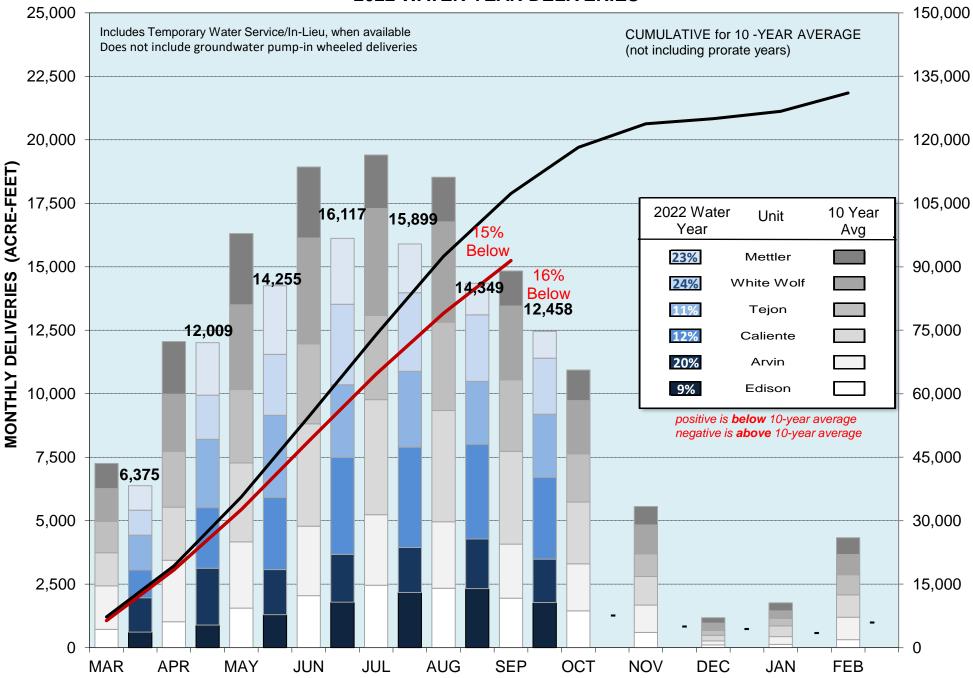


EXHIBIT "C1" ARVIN-EDISON WATER STORAGE DISTRICT WATER SUPPLY WATER QUALITY SUMMARY

	Date	Flow	Import	Cal	cium	Magn	esium	Sod	ium	Bicart	onate	Chlo	oride	Nit	rate	TDS	нα	EC	Hardness	SAR	Gypsum	Boron	Turbidity
	Duto	cfs	Source	ma/l	me/l	ma/l	me/l	ma/l	me/l	ma/l	me/l	ma/l	me/l	mg/l	me/l	ma/l	P	umhos/cm	ma/l	Orat	lbs/AF	ma/l	NTU
	09/06/22	230	FKC(86%)/KD WELLS(14%)	9.2	0.46	1.1	0.09	8.3	0.36	44	0.72	4.7	0.13	1.40	0.02	53	7.87	101	28	0.7	0.75	0.064	2.3
	08/11/22	180	FKC(82%)/KD WELLS(18%)	13.0	0.65	1.4	0.11	11.0	0.47	52	0.85	6.7	0.19	3.00	0.05	71	8.12	135	37	0.8	0.46	0.052	1.6
	07/08/22	82	FKC(61%)/KD WELLS(39%)	23.0	1.15	2.3	0.19	19.0	0.82	90	1.48	12.0	0.34	4.80	0.08	120	8.44	223	67	1.0	0.98	0.096	1.9
	06/07/22	30	FKC(81%)/KD WELLS & KD CENTRAL(19%)	30.0	1.50	4.5	0.37	26.0	1.12	110	1.80	17.0	0.48	8.70	0.14	170	8.4	313	93	1.2	0.37	0.15	2.1
	05/09/22	30	KD WELLS & KD CENTRAL(100%)	20.0	1.00	3.5	0.29	24.0	1.03	98	1.61	9.3	0.40	2.50	0.04	130	8.2	254	64	1.3	1.40	0.16	6.4
-	04/07/22	30	KD WELLS & KD CENTRAL(100%)	33.0	1.65	5.3	0.23	25.0	1.08	120	1.97	16.0	0.20	7.70	0.04	180	8.2	320	110	1.0	ND	0.16	3.2
Canal	03/09/22	0	RESIDUAL FKC(100%)	6.0	0.30	0.8	0.06	5.5	0.24	29	0.48	3.3	0.09	0.34	ND	33	7.7	70	18	0.6	0.50	0.03	4.7
	02/08/22	150	FKC(100%)	3.9	0.30	0.6	0.00	4.3	0.24	20	0.33	4.1	0.03	0.50	0.01	20	7.6	53	12	0.0	0.00	0.00	2.8
Intake	01/10/22	60	FKC(100%)	5.2	0.20	0.0	0.05	4.5	0.19	26	0.33	2.8	0.12	0.30	0.01	29	7.5	56	16	0.5	0.00	0.04	4.2
Inte	12/13/21	0	RESIDUAL FKC(100%)	17.0	0.20	1.0	0.00	25.0	1.08	58	0.95	17.0	0.48	6.60	0.01	120	8.1	221	46	1.6	0.43	0.04	1.7
-	12/13/21	80	FKC(100%)	16.0	0.80	1.0	0.08	25.0	0.91	67	1.10	13.0	0.40	3.50	0.06	120	8.0	197	40	1.0	0.12	0.04	2.6
	10/07/21	40	CVC(100%)	7.5	0.38	0.7	0.10	8.0	0.34	33	0.54	3.8	0.37	1.10	0.00	43	7.6	79	22	0.8	0.78	0.03	1.8
	09/09/21	60	CVC(100%)	8.0	0.30	0.7	0.00	7.8	0.34	36	0.54	4.3	0.11	1.10	0.02	45	7.8	90	22	0.0	0.47	0.03	2.3
	08/09/21	35	CVC(100%) CVC(56%)/KD WELLS(44%)	28.0	1.40	4.0	0.00	21.0	0.91	110	1.80	4.3 14.0	0.12	6.80	0.02	45 150	7.8 8.3	90 274	88	1.0	0.04	0.02	1.6
	Average	- 55	000(30%)/ND WEEE3(44%)	15.7	0.8	4.0 2.0	0.33	15.0	0.91	63.8	1.00	9.1	0.39	3.5	0.1	90.3	8.0	170.4	47.9	0.9	0.03 0.5	0.11	2.8
	09/06/22	120	FKC(66%)/KD WELLS(11%)/WELLS(23%)	26.0	1.30	4.8	0.39	30.0	1.29	99	1.62	18.0	0.51	9.80	0.16	180	8.2	334	84	1.4	ND	0.27	1.9
	03/00/22	80	FKC(59%)/KD WELLS(13%)/WELLS(28%)	23.0	1.15	3.7	0.30	35.0	1.51	100	1.64	21.0	0.51	10.00	0.10	180	8.4	323	73	1.4	1.30	0.27	2.1
	07/08/22	80	FKC(25%)/KD WELLS(16%)/WELLS(59%)	27.0	1.35	4.4	0.36	43.0	1.85	120	1.97	23.0	0.65	9.30	0.10	200	8.4	373	87	2.0	1.40	0.20	2.1
	06/07/22	94	FKC(43%)/KD WELLS & KD CENTRAL(10%)/WELLS(47%)	21.0	1.05	3.7	0.30	43.0 55.0	2.37	120	1.97	23.0	0.00	11.00	0.13	200	8.4	380	68	2.0	3.20	0.23	2.8
	05/09/22	48	KD WELLS & KD CENTRAL(18%)/WELLS(82%)	26.0	1.30	4.9	0.30	55.0	2.37	120	2.30	30.0	0.84	11.00	0.18	240	8.3	450	85	2.6	2.30	0.41	3.2
_	03/03/22	48	KD WELLS & KD CENTRAL(18%)/WELLS(82%)	19.0	0.95	3.8	0.40	27.0	1.16	100	1.64	13.0	0.37	5.80	0.09	130	8.1	241	64	1.5	1.70	0.09	3.6
Canal	03/09/22	38	WELLS(100%)	16.0	0.80	2.9	0.24	43.0	1.85	95	1.56	20.0	0.56	2.10	ND	160	8.6	322	52	2.6	2.80	0.03	4.4
	02/08/22	134	FKC(100%)	5.0	0.00	0.6	0.24	4.4	0.19	23	0.37	5.1	0.30	0.50	0.01	22	8.0	522	15	0.1	0.00	0.10	4.4
North	01/10/22	80	FKC(100%)	7.2	0.20	0.8	0.06	4.7	0.20	40	0.66	2.9	0.08	0.36	0.01	39	7.5	69	21	0.5	1.00	0.05	5.1
No	12/13/21	0	RESIDUAL FKC(100%)	31.0	1.55	2.7	0.00	21.0	0.20	130	2.13	2.3 9.4	0.00	2.80	0.01	150	7.7	310	88	1.0	1.60	0.03	6.7
	11/09/21	58	FKC(100%)	17.0	0.85	1.3	0.22	19.0	0.82	71	1.16	12.0	0.20	2.00	0.03	98	8.2	190	47	1.0	0.94	0.07	3.3
	10/07/21	14	CVC(24%)/WELLS(76%)	20.0	1.00	3.5	0.11	54.0	2.33	130	2.13	23.0	0.65	8.90	0.04	200	8.3	346	63	3.0	3.50	0.10	2.0
	09/09/21	70	CVC(31%)/WELLS(69%)	18.0	0.90	3.6	0.23	56.0	2.33	120	1.97	26.0	0.03	10.00	0.14	200	8.4	369	60	3.1	4.10	0.40	3.0
	08/09/21	14	CVC(10%)/KD WELLS(8%)/WELLS(82%)	24.0	1.20	4.4	0.36	34.0	1.47	120	2.13	15.0	0.42	12.00	0.10	170	8.2	314	77	1.7	2.40	0.41	2.9
	Average	14		20.0	1.0	3.2	0.3	34.4	1.5	101.3	1.7	17.5	0.42	6.9	0.10	156.4	8.2	291.4	63.1	1.8	2.40	0.12	3.5
	09/06/22	70	FKC(60%)/KD WELLS(10%)/WELLS(30%)	31.0	1.55	7.0	0.57	43.0	1.85	130	2.13	37.0	1.04	12.00	0.19	240	8.3	433	110	1.8	ND	0.31	1.6
	08/11/22	70	FKC(53%)/KD WELLS(11%)/WELLS(36%)	31.0	1.55	6.7	0.55	39.0	1.68	120	1.97	34.0	0.96	13.00	0.21	220	8.3	399	110	1.7	ND	0.22	1.5
	07/08/22	90	FKC(20%)/KD WELLS(13%)/WELLS(67%)	33.0	1.65	7.8	0.64	41.0	1.77	140	2.30	33.0	0.93	12.00	0.19	230	8.3	422	110	1.7	ND	0.21	2.4
	06/07/22	150	FKC(34%)/KD WELLS & KD CENTRAL(8%)/WELLS(58%)	29.0	1.45	7.6	0.62	50.0	2.16	140	2.30	41.0	1.15	11.00	0.18	240	8.2	437	100	2.1	1.20	0.27	1.3
1	05/09/22	30	KD WELLS & KD CENTRAL(12%)/WELLS(88%)	23.0	1.15	5.1	0.42	51.0	2.20	120	1.97	29.0	0.81	16.00	0.26	230	8.5	424	79	2.5	2.60	0.40	3.0
7	04/07/22	80	KD WELLS & KD CENTRAL(12%)/WELLS(88%)	33.0	1.65	9.8	0.80	37.0	1.59	140	2.30	37.0	1.04	9.20	0.15	220	8.2	419	120	1.4	ND	0.11	1.2
Canal	03/09/22	20	WELLS(100%)	16.0	0.80	2.9	0.24	42.0	1.81	110	1.80	19.0	0.53	1.60	ND	160	8.6	311	51	2.6	3.80	0.37	5.0
	02/08/22	70	FKC(100%)	5.2	0.26	0.6	0.05	4.4	0.19	24	0.40	3.9	0.11	0.50	0.01	26	7.8	60	16	0.1	0.00	0.10	3.6
South	01/10/22	40	FKC(100%)	8.0	0.40	0.8	0.06	4.8	0.21	36	0.59	2.8	0.08	0.35	0.01	37	7.8	73	23	0.5	0.51	0.05	3.8
So	12/13/21	N/A	DOWN FOR WINTER MAINTENANCE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/09/21	160	FKC(100%)	18.0	0.90	1.4	0.11	20.0	0.86	74	1.21	12.0	0.34	2.70	0.04	100	8.1	199	51	1.2	0.86	0.10	3.1
	10/07/21	120	CVC(17%)/WELLS(83%)	32.0	1.60	8.6	0.70	49.0	2.11	140	2.30	40.0	1.12	11.00	0.18	240	8.1	428	120	2.0	0.05	0.10	2.0
	09/09/21	110	CVC(23%)/WELLS(77%)	32.0	1.60	9.2	0.75	45.0	1.94	140	2.30	44.0	1.24	10.00	0.16	240	8.3	453	120	1.8	0.06	0.22	1.8
	08/09/21	0	CVC(7%)/KD WELLS(5%)/WELLS(88%)	40.0	2.00	12.0	0.98	45.0	1.94	160	2.62	61.0	1.71	12.00	0.19	280	8.2	525	150	1.6	ND	0.14	1.6
	Average	-		25.5	1.3	6.1	0.5	36.2	1.6	113.4	1.9	30.3	0.9	8.6	0.1	189.5	8.2	352.5	89.2	1.6	1.1	0.2	2.4
L	Average	1		20.0	1.5	0.1	0.0	30.2	1.0	110.4	1.5	50.5	0.5	0.0	0.1	.03.5	0.2	302.3	00.2	1.0		0.2	2.7

EXHIBIT "C1" ARVIN-EDISON WATER STORAGE DISTRICT WATER SUPPLY WATER QUALITY SUMMARY

	Date	Flow ¹	Import	Calo	cium	Magn	esium	Sod	ium	Bicark	oonate	Chlo	ride	Nitr	ate	TDS	рΗ	EC	Hardness	SAR	Gypsum	Boron	Turbidity
		cfs	Source	mg/l	me/l	mg/l	me/l	mg/l	me/l	mg/l	me/l	mg/l	me/l	mg/l	me/l	mg/l		umhos/cm	mg/l		lbs/AF	mg/l	NTU
	09/06/22	0	FKC(60%)/KD WELLS(10%)/WELLS(30%)	23.0	1.15	6	0.49	37.0	1.59	97	1.59	30.0	0.84	7.90	0.13	190	8.51	355	81	1.8	0.35	0.25	3.9
	08/11/22	0	FKC(53%)/KD WELLS(11%)/WELLS(36%)	27.0	1.35	6.6	0.54	42.0	1.81	110	1.80	34.0	0.96	11.00	0.18	220	8.38	396	94	1.9	0.19	0.26	3.4
	07/08/22	0	FKC(20%)/KD WELLS(13%)/WELLS(67%)	34.0	1.70	8.5	0.70	43.0	1.85	140	2.30	36.0	1.01	12.00	0.19	240	8.23	442	120	1.7	ND	0.24	2.3
	06/07/22	0	FKC(34%)/KD WELLS & KD CENTRAL(8%)/WELLS(58%)	29.0	1.45	8.1	0.66	45.0	1.94	130	2.13	38.0	1.07	11.00	0.18	230	8.4	426	110	1.9	0.73	0.24	4.3
	05/09/22	0	KD WELLS & KD CENTRAL(12%)/WELLS(88%)	30.0	1.50	8.7	0.71	42.0	1.81	130	2.13	37.0	1.04	10.00	0.16	230	8.5	440	110	1.8	0.75	0.19	5.4
line	04/07/22	0	KD WELLS & KD CENTRAL(12%)/WELLS(88%)	33.0	1.65	9.5	0.78	36.0	1.55	140	2.30	35.0	0.98	9.50	0.15	220	8.2	402	120	1.4	ND	0.12	2.7
Pipe	03/09/22	0	WELLS(100%)	15.0	0.75	3.0	0.25	15.0	0.65	65	1.07	10.0	0.28	4.10	0.07	90	8.2	187	51	0.9	0.24	0.07	4.4
	02/08/22	-40	FKC(100%)	6.7	0.34	0.8	0.06	4.5	0.19	26	0.43	4.4	0.12	0.50	0.01	29	8.1	76	20	0.0	0.00	0.10	7.0
irtie	01/10/22	-40	FKC(100%)	9.8	0.49	0.9	0.08	5.7	0.25	41	0.67	3.5	0.10	0.54	0.01	44	7.9	87	28	0.5	0.45	0.05	4.5
Inte	12/13/21	N/A	DOWN FOR WINTER MAINTENANCE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
-	11/09/21	0	FKC(100%)	22.0	1.10	4.6	0.38	31.0	1.34	93	1.52	18.0	0.51	4.90	0.08	150	8.4	299	73	1.6	0.72	0.20	4.0
	10/07/21	0	CVC(17%)/WELLS(83%)	38.0	1.90	12.0	0.98	48.0	2.07	150	2.46	49.0	1.38	12.00	0.19	270	8.3	477	140	1.7	ND	0.17	4.5
	09/09/21	0	CVC(23%)/WELLS(77%)	37.0	1.85	12.0	0.98	44.0	1.90	160	2.62	49.0	1.38	13.00	0.21	260	8.2	496	140	1.6	ND	0.14	5.3
	08/09/21	0	CVC(7%)/KD WELLS(5%)/WELLS(88%)	31.0	1.55	10.0	0.82	43.0	1.85	130	2.13	44.0	1.24	11.00	0.18	240	8.5	451	120	1.7	ND	0.15	2.4
	Average			25.8	1.3	7.0	0.6	33.6	1.4	108.6	1.8	29.8	0.8	8.3	0.1	185.6	8.3	348.8	92.8	1.4	0.4	0.2	4.2

Water Supply Water Quality Note: ¹ Positive flow rate is reverse flow into the District. Where the reported value is ND, the method detection limit is entered.

Water Supply Water Quality Note: ² Reverse flow into the District South Canal (Sycamore check gate was closed).

Water Supply Water Quality Note: ³ Constituent ran past sample hold time.

ND: NA: mg/l:	NONE DETECTED. NOT AVAILABLE OR NOT TESTED. MILLIGRAMS PER LITER; SAME AS PARTS PER MILLION (ppm).	pH:	A MEASURE OF ACIDITY. A pH < 7 IS ACIDIC, pH = 7 IS NEUTRAL, pH > 7 IS BASIC. NORMAL RANGE IS 6.5 - 8.4. A pH > 8 MAY NEED TO BE BUFFERED FOR PESTICIDE APPLICATION. AFFECTS NUTRIENT AVAILABILITY.
me/l: INTAKE: NORTH: SOUTH: INTERTIE:	MILLEQUIVALENTS PER LITER; SAME AS EQUIVALENTS PER MILLION (epm). SAMPLE TAKEN AT COTTONWOOD RD. SOUTH OF PANAMA LANE. SAMPLE TAKEN DOWNSTREAM OF SYCAMORE CHECK GATE. SAMPLE TAKEN DOWNSTREAM OF TEJON CHECK GATE. TERMINUS OF SOUTH CANAL (S93 FOREBAY).	EC:	ELECTRICAL CONDUCTIVITY. A MEASURE OF WATER SALINITY; SOIL - IN MILLIMHOS PER CENTIMETER (mmho/cm); WATER - MORE OFTEN, IN MICROMHOS PER CENTIMETER (umhos/cm). EC < 700 (umhos/cm) HAS NO RESTRICTIONS FOR AGRICULTURAL USE. EC < 200 (umhos/cm) CAN REDUCE INFILTRATION RATE.
SODIUM: NITRATE:	FOR SURFACE IRRIGATION: SAR < 3 IS GOOD. FOR SPRINKLER IRRIGATION: SODIUM < 3 me/I IS GOOD.	HARDNESS:	HARD WATER, INDICATING CALCIUM AND MAGNESIUM, IS BENEFICIAL FOR AGRICULTURE.
BICARBONATE: CHLORIDE: TDS:	BICARBONATE < 1.5 me/I IS SATISFACTORY FOR OVERHEAD SPRINKLERS. FOR SURFACE IRRIGATION CHLORIDE < 4 me/I IS GOOD. TDS < 450 IS ACCEPTABLE FOR UNRESTRICTED USE.	SAR:	SODIUM ADSORPTION RATIO. A RATIO OF SODIUM TO CALCIUM AND MAGNESIUM. EVALUATE WITH EC. SAR = $0 - 3$ AND EC > 400 ACCEPTABLE
GYPSUM:	AMOUNT OF CALCIUM SULFATE IN POUNDS PER ACRE-FOOT OF WATER APPLIED. INCREASES WATER PERMEABILITY AND HELPS CORRECT EXCESS SODIUM. INCREASES CLAY FLOCCULATION FOR INCREASING PERMEABILITY.	BORON:	SAR = 3 - 6 AND EC > 900 ACCEPTABLE BORON < 0.50 mg/I IS SATISFACTORY FOR ALL CROPS. EXCESSIVE BORON IS PHYTOTOXIC (BURNS) TO PLANTS.

Treatment	<i>(</i> ^	Int	take				No	rth								So	uth				
Treatment Weeks	Temps	St	tine		Bal.	PP	NCSW	PP	PP	Syc.	Syc		PP	PP	Tej.	Tej.	615	729	883	Spill	Intertie
(Monday)	Tei	Siph 35	non 3+87	<u> </u>	Res. 145+00	24P1 237+00	326+50	41P1 413+10	55P1 546+00	Ponds 576+50	Chec 664+3		32P1 91+50	38P1 386+30	Ponds	Check 458+40	Check 615+00	Check 729+10	Check 883+00	Way 885+45	Forbay 900+27
01/03/22			5707		143700	201400	320+30	415410	340400	510+50		23	51750	300+30		430140	013400	123410	003400	003743	300+21
z 01/10/22	32																				
01/17/22 01/24/22	36-62																				
01/24/22 01/31/22				-																	
02/07/22																					
B 02/14/22 02/21/22	33-67			_																	
H 02/21/22 02/28/22	33-			-																	
02/28/22																					
03/07/22	e																				
WW 03/14/22 03/21/22	43-73			-																	
03/28/22	4																				
04/04/22							05	10	20	20											
<u>04/04/22</u> ∼ 04/11/22				-			65	2.5 5	5 10	5 10					9 5	10		9			
04/11/22	48-77							2.5	2.5	2.5					11	2.5		7			
04/18/22	4							10	10												
04/18/22 04/25/22				\vdash				2.5	2.5 10						17 10	10	10	7			
04/25/22				E				2.5	2.5						14.5	2.5	2.5	4			
05/02/22								2.5	2.5	275	15		14		16			11			
05/02/22 05/09/22								10	10						10		10				
05/09/22	23			E											2.5		2.5				
05/16/22	53-83							2.5	2.5		16		16								
05/16/22								10	10						10			10	10		
05/23/22							65	194							32.5			2.5	2.5		
05/30/22							97	32	10	0.5					15			11			
06/06/22	~			-					10 10	2.5 2.5	21		21		24 20	10	2.5	11			
6/20/22	63-93							5	240	80	16		16		12			6			
06/20/22	9			_				10 2.5	10						23			19			
06/27/22 07/04/22				-				2.5	10 2.5	10		-			23	15		19	21		
07/11/22	8								88.0	275.0	14		14			7		5			
07/18/22	69-100				105				10	10					40			9			
07/18/22 07/25/22	Q				31			10	120.5	170		_			18 11			25			
08/01/22						127	38	148	65	5					12			5			
08/01/22 08/08/22	5							46	10	10	26		18		11			10			
08/08/22 08/15/22	70-101			-			65	204	88	250	20		10		8		10	9	10		
08/22/22	2							10	10	5	23		23		13			13			
08/29/22								5	10	10	80	_			10			8			
09/05/22 09/12/22	2L							250	80 2.5	250 2.5	80 23		23		19 17		2.5	8 12			
09/12/22	70-95								10	10							10				
09/19/22 09/26/22							127	19 148	48			_				7	8	7			
10/03/22								140	-10							5	3				
_ 10/10/22																					
0 10/17/22 10/24/22												_									
10/24/22																					
11/07/22		1 🗆																			
2 11/14/22 11/21/22				\vdash																	
11/28/22																					
u 12/05/22 12/12/22																					
O 12/12/22 12/19/22				-																	-
12/26/22																					
				_	Treat	ment	Material	Labor	Total		Chada	weeks	s are act	tual							
				. (Captain/l		\$110,849	\$11,060							gae and po	ndweed (in	jected/broa	idcast)			
			022 st To		Phyco		\$15.062	\$12,565	\$27,627) treatment		gae (broado	cast)			
			ate		Caso Teton/H		\$0 \$223,631	\$0 \$46,760	\$0 \$270,391		Endoth	all treat	tment (g	al) for mill	oil/basins (i ae (injected))					
					Spreadin	a Basins	\$0	\$0			Sonar/	Clooroor	et/Poun	d In Cust	m/MSO (g	ol)					

Teton/Hydrothol Spreading Basins

Total

\$223,631 \$46,760 \$270,391 \$0 \$0 \$0

\$349,542 \$70,385 \$419,927

 Year
 2021
 2020
 2019
 2018
 2017
 2016
 2015
 2014
 2013
 2012
 2011
 2010
 2008
 2007
 2006
 2005
 2004
 2003

 Year Type
 Critical-High
 Dry
 Wet
 Normal-Dry
 Critical-High
 Dry
 Wet
 Normal-Dry
 Critical-High
 Dry
 Wet
 Normal-Dry
 Normal-Dry
 Critical-High
 Dry
 Use
 Normal-Dry
 Dry
 Wet
 Normal-Dry
 Normal-Dry

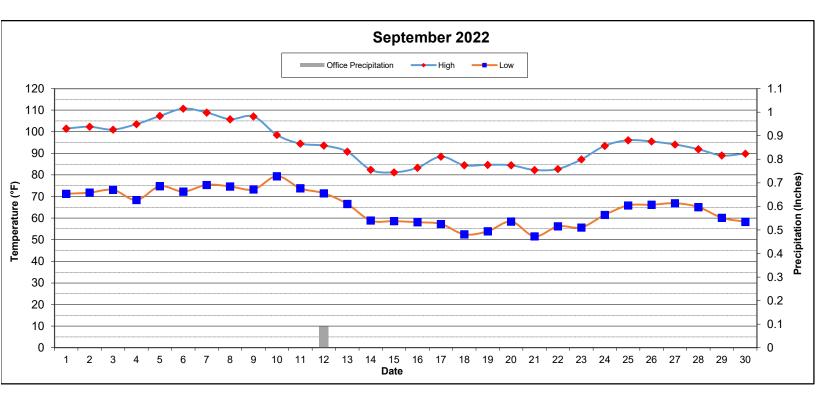
Sonar/Clearcast/RoundUp Custom/MSO (gal)

Winter Maintenance

ARVIN-EDISON WATER STORAGE DISTRICT 2022 AQUATIC PEST CONTROL TREATMENTS TO CANALS & SPREADING BASINS

EXHIBIT "C-2"

EXHIBIT "D" ARVIN-EDISON WATER STORAGE DISTRICT SUMMARY OF CLIMATOLOGICAL OBSERVATIONS



PRECIPITATION	BAL	RES (1)	OFFIC	CE (2)	SYCAM	ORE (3)	TEJC	DN (4)	INTER	TIE (5)
	INCHES	% AVG.	INCHES	% AVG.	INCHES	% AVG.	INCHES	% AVG.	INCHES	% AVG.
AVG. MONTHLY	0.04		0.09		0.07		0.07		0.04	
AVG. YEAR TO DATE	7.33		8.46		8.13		7.13		7.39	
CURRENT MONTH	0.10	7%	0.09	100%	0.03	43%	0.34	486%	0.23	575%
CUMULATIVE (07/01/21 - 06/30/22)	6.76	92%	7.81	92%	9.60	118%	6.98	98%	7.16	97%
									-	

TEMPERATURE (6)	(°F)	DATE	TIME
MAXIMUM TEMPERATURE	115	9/6/2022	4:00 PM
AVERAGE MAXIMUM TEMPERATURE	98		
# DAYS THIS MONTH ABOVE 100 °F	9		
MINIMUM TEMPERATURE	60	9/18/2022	4:00 AM
AVERAGE MINIMUM TEMPERATURE	72		
# DAYS THIS MONTH BELOW 32 °F	0		

WIND (6)	M.P.H.	DATE	TIME	DRCTN
MAXIMUM WIND SPEED	18.0	9/5/2022	7:00 PM	NE
AVERAGE WIND SPEED	4.1			
AVERAGE WIND SPEED @ 8:00 AM	3.6			
BAROMETRIC PRESSURE (7)	IN. HG	DATE	TIME	
AVERAGE PRESSURE @ 8:00 AM	29.41			

9:00 AM

8:00 PM

NOTES

MAXIMUM PRESSURE

MINIMUM PRESSURE

(1) October 2018 to Present data gathered from District rain gauges

(2) 1975 to Present data gathered from District rain gauges

(3) 1968 to Present data gathered from District rain gauges

(4) 1967 to Present data gathered from District rain gauges

(5) October 2018 to Present data gathered from District rain gauges

(6) Data retrieved from CIMIS (http://www.cimis.water.ca.gov/WSNReportCriteria.aspx)

29.90

29.10

(7) Data retrieved from Weather Underground (https://www.wunderground.com/us/ca/arvin/zmw:93203.1.99999)

9/1/2022

9/27/2022

Precipitation Day is 8:00 AM to 8:00 AM

EXHIBIT "E" ARVIN-EDISON WATER STORAGE DISTRICT WY2022 ENERGY CONSUMPTION AND POWER DEMAND

		I	ENERGY COI	NSUMED - KV	WН				TOTAL DI	EMAND - K	W		
Month	Forrest Frick PP	Distrib. System	Spreading	Wells	Intertie PP	Total	Forrest Frick PP	Distrib. System	Spreading	Wells	Intertie PP	Total	Load Factor
MAR 22	97,947	2,033,650	1,275	5,215,376	3,443	7,351,691	1,904	12,244	2	14,649	7	28,805	34%
APR	389,787	3,790,053	1,224	9,611,736	3,469	13,796,269	1,515	13,874	2	19,143	6	34,540	55%
MAY	607,866	4,566,990	13,773	11,461,732	3,770	16,654,130	2,715	14,821	341	19,138	6	37,022	60%
JUN	1,007,223	5,354,176	11,609	11,547,317	3,949	17,924,273	2,998	15,012	170	18,920	7	37,107	67%
JUL	1,415,785	5,520,288	8,626	8,849,588	4,243	15,798,529	4,166	14,719	357	13,224	8	32,473	65%
AUG	1,960,480	5,394,388	1,248	5,302,189	4,559	12,662,864	17,676	13,727	2	7,616	7	39,028	44%
SEP	1,709,286	4,707,633	1,219	4,157,268	4,254	10,579,659	5,313	14,201	2	7,907	9	27,432	54%
ост													
NOV													
DEC													
JAN 23													
FEB													
TOTAL	7,188,373	31,367,177	38,974	56,145,206	27,687	94,767,416							

- Energy use for lighting accounts for approximately 90,000 kWh/month at District

wellfields and 4,000 kWh/month at the Intertie Pumping Plant

EXHIBIT "F" ARVIN-EDISON WATER STORAGE DISTRICT 2022 WATER YEAR WELLFIELD PRODUCTION - AF

		Bal Res	North	n Canal 5				field				Total	
Month	•		North		N	lorth	Syca	amore % of Historical		Tejon			
	AF	% of Historical Max	AF	% of Historical Max	AF	% of Historical Max	AF	% of Historical Max	AF	% of Historical Max	AF	AF / Day	% of Historical Max
MAR - 22	0	0%	988	81%	2,003	78%	1,886	29%	1,495	27%	6,372	206	41%
APR	0	0%	1,113	92%	2,943	96%	3,531	51%	3,503	70%	11,090	370	74%
MAY	0	0%	1,108	89%	3,402	92%	3,868	53%	4,018	74%	12,397	400	82%
JUN	0	0%	1,026	51%	3,160	86%	3,775	188%	3,782	189%	11,743	379	78%
JUL	0	0%	1,105	88%	3,510	92%	2,409	32%	2,636	49%	9,660	312	59%
AUG	0	0%	852	68%	2,086	55%	1,290	18%	1,707	33%	5,934	191	37%
SEP	0	0%	741	61%	1,709	52%	1,069	16%	1,294	29%	4,813	160	34%
ост		0%		0%		0%		0%		0%	0	0	0%
NOV		0%		0%		0%		0%		0%	0	0	0%
DEC		0%		0%		0%		0%		0%	0	0	0%
JAN - 23		0%		0%		0%		0%		0%	0	0	0%
FEB		0%		0%		0%		0%		0%	0	0	0%
Total		0	6	,933	18	3,814	17	,829	1	8,435	62,010	168	34%
Ratio		0%		11%	3	30%	2	9%		30%	100%	A	verage
Wells		4		5		14		34		29	86		-

EXHIBIT "G" ARVIN-EDISON WATER STORAGE DISTRICT 2022 WATER YEAR GROSS SPREADING - AF

Month	Bal Res	North Gravity	North Pressure	Sycamore	Tejon Gravity	Tejon Pressure	Murray Gravity	Landowner Recharge	Subtotal	In-Lieu	Temporary Water	Total
MAR-22	0	0	0	0	0	0	0	0	0	0	0	0
APR	0	0	0	0	0	0	0	0	0	0	0	0
МАҮ	79	0	0	0	0	0	0	0	79	0	0	79
JUN	202	0	0	0	0	0	0	0	202	0	0	202
JUL	117	0	0	0	0	0	0	0	117	0	0	117
AUG	0	0	0	0	0	0	0	0	0	0	0	0
SEP	0	0	0	0	0	0	0	0	0	0	0	0
ост												
NOV												
DEC												
JAN-23												
FEB												
Total	398	0	0	0	0	0	0	0	398	0	0	398
Ratio Ratio												

Total	398	0		0		398		398
Pressure								

EXHIBIT "H-1" ARVIN-EDISON WATER STORAGE DISTRICT STATIC VS PUMPING WATER LEVELS IN DISTRICT WELLS - SEPTEMBER 2022 ALL VALUES IN FEET

	WELL #	STATIC LEVEL	PUMPING LEVEL	BOWL DEPTH	TOTAL DEPTH	DRAW DOWN	BOWL COVERAGE
	N1	432	492	610	840	60	118
	N2	453	557	700	840	104	143
	N3	384	409	610	840	25	201
	N4	444	467	550	864	23	83
	N5	461	472	650	864	12	178
	N6	518	610	640	920	92	30
	N7	478	501	600	1010	23	99
-	N8	424	458	560	970	35	102
CANAL (23)	N9	455	554	700	990	99	146
<u> </u>	N10	467	510	560	990	43	50
A	N11	428	456	562	1020	28	106
Z	N12	475	503	600	1030	28	97
	N13	478	505	600	1000	28	95
E	N14	450	473	540	900	23	67
L R	N15	393	529	700	1200	136	171
NORTH	N16	393	469	600	1200	76	131
2	N17	414	520	610	1200	106	90
	N18	452	584	610	1190	132	26
	N19	470	515	760	1300	45	245
	N20	594	628	820	1020	35	192
	N21	471	552	660	950	81	108
	N22	463	484	680	990	21	196
	N23	457	472	680	990	15	208
	Avg	454	510				

	WELL #	STATIC LEVEL	PUMPING LEVEL	BOWL DEPTH	TOTAL DEPTH	DRAW DOWN	BOWL COVERAGE
	71	608	638	800	1050	30	162
	72	571	599	800	1045	28	201
	73	544	578	800	1018	35	222
	74	560	599	800	1084	39	201
	75	548	567	800	1045	18	233
	76	538	587	700	996	49	113
	77	527	622	800	1066	95	178
	78	530	590	800	1038	60	210
	79	520	578	700	1032	58	122
	80	518	618	800	996	99	182
	81	434	481	700	925	46	219
	82	434	485	800	996	51	315
÷	83	557	611	800	996	53	189
TEJON (29)	84	418	455	700	955	37	245
ž	86	590	620	800	996	30	180
Q	87	567	594	800	984	28	206
Ľщ	88	564	601	800	948	37	199
-	89	539	569	800	996	30	231
	90	467	504	700	996	37	196
	91	N/A	N/A	700	996	N/A	N/A
	92	594	636	800	996	42	164
	93	620	636	800	996	16	164
	94	608	647	860	996	39	213
	95	539	565	800	996	26	235
	96	590	689	800	996	99	111
	98	571	610	760	1340	39	150
	99	554	586	760	1340	32	174
	100	544	577	760	1340	33	183
	101	531	591	760	1310	60	169
	Avg	542	587				

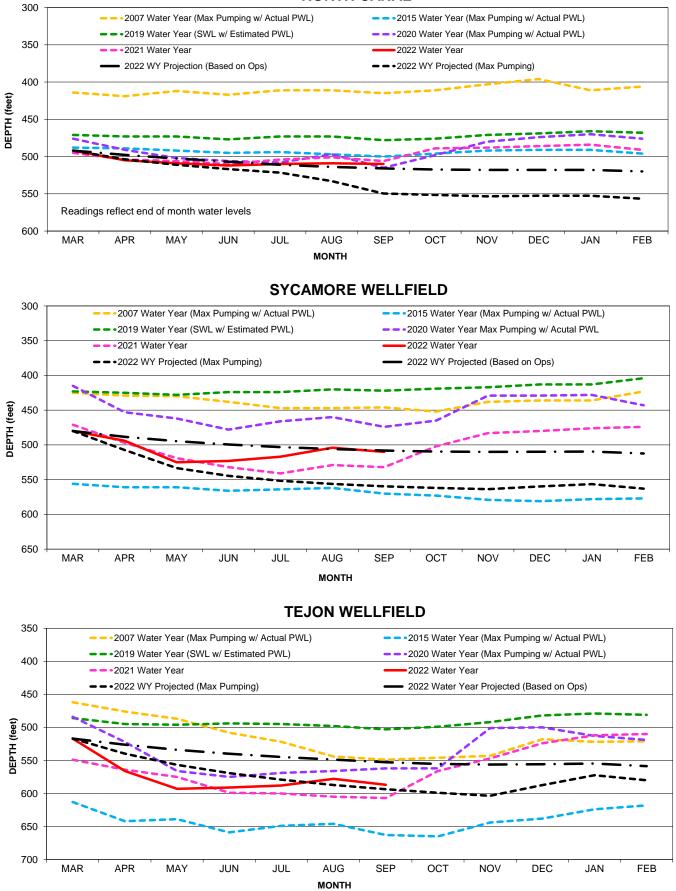
		STATIC	PUMPING	BOWL	TOTAL	DRAW	BOWL
	WELL #	LEVEL	LEVEL	DEPTH	DEPTH	DOWN	COVERAGE
	1	467	506	705	800	39	199
	2	483	526	690	876	43	164
	4	497	536	700	876	39	164
	5	507	538	720	876	30	182
	6	441	503	690	876	62	187
	7	511	541	700	830	30	159
	8	448	483	640	860	35	157
	9	501	545	700	886	44	155
	10	477	514	690	850	37	176
	11	471	520	700	880	49	180
	12	483	513	700	860	30	187
	13	446	492	700	850	46	208
	14	407	448	670	810	42	222
_	15	474	606	710	820	132	104
34)	16	474	615	700	888	141	85
<u> </u>	17	433	562	650	820	129	88
RE	18	449	470	650	820	21	180
õ	20	449	500	680	804	51	180
SYCAMORE (34)	21	452	512	690	856	60	178
õ	22	439	464	610	792	25	146
S	23	441	475	600	788	35	125
	24	448	483	580	780	35	97
	25	434	464	610	777	30	146
	26	443	496	690	816	53	194
	28	411	478	660	782	67	182
	29	459	480	690	787	21	210
	31	452	487	660	725	35	173
	32	414	506	640	739	92	134
	33	460	522	700	780	62	178
	34	N/A	N/A	700	781	N/A	N/A
	35	464	538	700	800	74	162
	36	465	508	600	820	43	92
	37	467	492	540	820	25	48
	38	471	507	860	1270	36	353
	Avg	459	510				

	м	ONTHLY SUMMA	RY - AVER	AGE WATER L	EVELS	
READINGS	S	TATIC LEVELS		F	PUMPING LEVEL	S
END OF	N. CANAL	SYCAMORE	TEJON	N. CANAL	SYCAMORE	TEJON
SEP-21	448	464	550	506	532	607
ОСТ	432	445	512	489	502	566
NOV	434	429	501	488	483	547
DEC	431	426	477	486	480	524
JAN	430	421	465	484	476	512
FEB	434	421	463	491	474	510
MAR	435	435	471	492	480	517
APR	448	444	518	505	494	566
MAY	453	471	547	509	525	593
JUN	457	467	547	512	523	591
JUL	454	462	542	510	517	588
AUG	453	452	533	509	504	578
SEP-22	454	459	542	510	510	587
CHANGE TO-DATE	-6	5	8	-4	22	20

OUT OF SERVICE (9)
AIRLINE FAILURE (14)
FAILED (2)
86 TOTAL WELLS

*Bowl depth measured to top of pump *Pumping levels are estimated based on previous draw down records. (6 month average) *Airline failure levels were obtained with acoustic sounder

EXHIBIT "H-2" ARVIN-EDISON WATER STORAGE DISTRICT WELLFIELD PUMPING WATER LEVELS - 2007, 2015, AND 2019-22



NORTH CANAL