Borrego Water District Board of Directors Regular Board Meeting January 23, 2024 @ 9:00 a.m. 806 Palm Canyon Drive Borrego Springs, CA 92004

The Borrego Water District Board of Directors meeting as scheduled will be conducted in person and in an electronic format please note BWD is providing remote attendance options solely as a matter of convenience to the public. BWD will not stop or suspend its in-person public meeting should a technological interruption occur with respect to the GoTo meeting, or call-in line listed on the agenda. We encourage members of the public to attend BWD meetings in-person at the address printed on page 1 of this agenda. Anyone who wants to listen to or participate in the meeting remotely is encouraged to join my meeting from your computer, tablet or smartphone via GO TO MEETING at:

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I. OPENING PROCEDURES -

- A. Call to Order
- B. Pledge of Allegiance
- C. Directors' Roll Call: President Dice, Vice President Baker, Sec./Treas. Johnson & Directors Duncan & Moran
- D. Approval of Agenda
- E. Comments from the Public & Requests for Future Agenda Items (may be limited to 3 min)
- F. Comments from Directors
- G. Correspondence Received from the Public None

II. ITEMS FOR BOARD CONSIDERATION AND POSSIBLE ACTION -

- A. Legislative Update Best/Best/Krieger, D.C. and Syrus Deevers, Sacramento
- B. 2024 Town Hall Planning K Dice/D Johnson/G Poole
- C. Automated Metering Infrastructure Vendor Selection T Baker/G Moran/J Clabaugh
- D. Borrego Springs Subbasin Watermaster Board VERBAL D Duncan/K Dice/T Driscoll
 - 1. Update on Board Activities
 - 2. Update on Technical Advisory Committee Activities
 - 3. Borrego Basin AEM Helicopter Survey Update

III. BOARD COMMITTEE REPORTS, IF NEEDED

STANDING:

- A. Operations and Infrastructure: Duncan/Baker
- B. Budget and Audit: Dice/Moran
- C. ACWA/JPIA Insurance: Dice/Johnson

AGENDA: January 23, 2024: The Borrego Springs Water District complies with the Americans with Disabilities Act. Persons with special needs should call Geoff Poole, General Manager – at (760) 767 – 5806 at least 48 hours in advance of the start of this meeting, in order to enable the District to make reasonable arrangements to ensure accessibility. If you challenge any action of the Board of Directors in court, you may be limited to raising only those issues you or someone else raised at the public hearing, or in written correspondence delivered to the Board of Directors (c/o the Board Secretary) at, or prior to, the public hearing.

All Documents for public review on file with the District's Secretary located at 806 Palm Canyon Drive, Borrego Springs CA 92004. Any public record provided to a majority of the Board of Directors less than 72 hours prior to the meeting, regarding any item on the open session portion of this agenda, is available for public inspection during normal business hours at the Office of the Board Secretary, located at 806 Palm Canyon Drive, Borrego Springs CA 92004.

AD HOC:

- A. Prop 68 Implementation: Baker/Johnson
- B. Public Outreach: Dice/Johnson
- C. Grants: Dice/Johnson
- D. Cyber Security/Risk Management: Baker
- E. Developer's Agreement: Baker/Duncan
- F. Finance: Baker/Moran
- G. Borrego Springs Basin Water Quality: Moran/Johnson
- H. Automated Metering Infrastructure Selection and Implementation: Baker/Moran

IV. STAFF REPORTS – VERBAL

- A. Monthly Water Production and Operations Report: A Asche
- B. Monthly Wastewater Production Report: R Martinez
- C. Monthly Financial Report: J Clabaugh
- D. Administration: D Del Bono
- 1. Electronic Data Storage
 - 2. Water Supply for Small Development
- E. Legal Counsel: S Anderson
- F. General Manager: G Poole

V. CLOSED SESSION:

- A. Conference with Legal Counsel Potential Initiation of litigation pursuant to paragraph (4) of subdivision (d) of Section 54956.9: (Two (2) potential case)
- B. Conference with Legal Counsel Existing Litigation (Borrego Water District v. All Persons (Groundwater), Orange County Superior Court Case No. 37-2020-00005776
- C. Conference with Real Property Negotiators (Gov. Code §Section 54956.8) APN: 140-303-0900 & 140-303-1100 Agency Negotiator: Geoff Poole, BWD General Manager Negotiating Parties: BWD and US Gypsum Corp as potential buyer Price and Terms of Payment
- D. Cyber Security

VI. CLOSING PROCEDURE: The next Board Meeting is scheduled for 9:00 AM February 13, 2024, to be available online and in person at 806 Palm Canyon Drive. See Board Agenda at BorregoWD.org for details, Agenda information available at least 72 hours before the meeting.

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Borrego Water District Board of Directors – Regular Board Meeting January 23, 2024 Agenda Item II.A

January 19, 2024

TO: Board of Directors

FROM: Geoffrey Poole, General Manager

SUBJECT: Legislative Update

RECOMMENDED ACTION:

Receive Report and Direct Staff and Consultants as deemed appropriate

ITEM EXPLANATION:

BWD utilizes the services of Legislative Advocates in Washington DC and Sacramento. The purpose of this relationship is to advocate on BWDs behalf on Legislative issues and Grant acquisition/support. BWD has received approximately \$9 M in Grants/Direct Congressional Spend in the past 2 years.

FISCAL IMPACT

1. TBD

ATTACHMENTS

1. None

Borrego Water District Board of Directors – Regular Board Meeting January 23, 2024 Agenda Item II.B

January 19, 2024

TO: **Board of Directors**

FROM: Geoffrey Poole, General Manager

SUBJECT: 2024 Town Hall Planning - K Dice/D Johnson/G Poole

RECOMMENDED ACTION:

Discuss options for 2024 Town Hall and direct Staff and the Ad Hoc Committee as deemed appropriate

ITEM EXPLANATION:

Planning has begun for 2024 BWD Town Hall and the initial thoughts are as follows:

Date: TBD: Week for March 11 or April 1st @ 4:30-6:30 pm Format: BWD Special Board Meeting - In person & Electronic Location: Borrego Springs Library Meeting Room Topics: *BWD 2024 Year in Review: Board & Ops - BWD

*BWD Finances and Rate Comparisons - BWD *Prop 68 Project Review - ALL Prop 68 Sub Grantees *Rams Hill Development Update and Status of Water/Sewer/Flood/Gnat Planning – T2 *Q & A - All

In terms of the date, the Committee was trying to avoid the week before Easter and the Library has an event the week prior, therefore week of 3-11 or 4-1 are the closest available.

In terms of topics, this is just our initial thoughts and the Committee and I would appreciate any suggestions.

The Rams Hill item was recently added due to the fact that in a meeting on 1-18 between T2 and Rams Hill, representatives indicated a desire to update the Community on their plans and I felt the TH would be a good time to provide that opportunity.

FISCAL IMPACT 1. N/A

ATTACHMENTS 1. None

Borrego Water District Board of Directors – Regular Board Meeting January 23, 2024 Agenda Item II.C

January 19, 2024

TO: Board of Directors

FROM: Geoffrey Poole, General Manager

SUBJECT: Vendor Selection – Automated Metering Infrastructure Project – T Baker/G Moran/J Clabaugh

RECOMMENDED ACTION:

Review process and recommendation. Authorize staff to proceed with Contract development.

ITEM EXPLANATION:

Beginning in mid 2023, BWD Staff and a Board Committee (Baker/Moran) began the development of documents and implementation of an interview and selection process to evaluate possible vendors for the AMI Project, funded by BWDs CA Prop 68 Grant. The process has now concluded with submittal of detailed Proposals and Cost Estimates. Following the process, the Committee is recommending Metron Farnier based on the facts that the system is cellular based which eliminates the need for and cost of BWD to operate and maintain system wide data collection, similar to our SCADA, but much larger in scale. Metron is able to do this at a lower cost than others with the same type of system. Metron also has designed a system with dramatically more data points every day per meter: 1,440 vs (3 to 96), and is the only vendor with a software package to utilize the info to estimate inside vs outside use.

The total price for meters and installation is \$1.40M and the Grant budget for this Project is \$1.23M. BWD will need to fund approximately \$170,000 to complete the project. Now that the first two reimbursements on the Tank and Motor Grant Reimbursement have been received, BWD's reserves are looking much healthier and there is expected to be sufficient funds available in the Contingency Reserve. In addition, additional funds can be written into the FY25 budget if the project is still ongoing at June 30th. The issue of additional cash funding will be monitored by the Finance Committee and the topic of a future agenda item.

FISCAL IMPACT

1. \$1.4 M with \$1.23 M Grant funded

ATTACHMENTS

1. Metron Information





Statement of Qualifications

Borrego Water District AMI Project

Submitted By: Metron-Farnier Address: 5665 Airport Blvd. Boulder, CO 80301 Contact: Dustin Rivas, Regional Sales Manager

Phone No: 303-453-9706

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- Attachment I NDA Form
- Attachment II Non-Collusion Affidavit
- Attachment III (Electronic Excel File Only) Requirements Workbook
- Appendix I Product Cut Sheets
- Appendix II Breakdown of Alerts & Reports in WaterScope
- Appendix III Service Level Agreements with Cost Proposal

Prime and Individual Solutions Provider Information

Name of Proposer: Metron-Farnier

Contractor License Number and Class (if applicable): N/A

DIR Registration Number (if applicable): N/A

Business Address: 5665 Airport Blvd. Boulder, CO 80301

Point of Contact: Dustin Rivas

Phone No.: 303-453-9706

*Metron-Farnier will be the sole contractor for supply and installation of this AMI project.

Executive Summary

Metron-Farnier, LLC (Metron) is located in the high-tech hub of Boulder, Colorado. Established in 1990, Metron has been providing advanced metering solutions to utilities for over 30 years. Our physical address is 5665 Airport Blvd., Boulder, CO 80301. Metron offers a full line of high performance residential, commercial, hydrant and fire service water meters augmented with smart meter technologies. The Metron metering and sub metering solutions provide superior measurement accuracy and range with the industry's highest data resolution– and AMI reporting.

The Metron AMA system utilizes the existing cellular (Verizon and/or AT&T) network to backhaul 1- minute, time synchronized, consumption data. The ease of deployment makes this an attractive system to everyone from rural water companies to systems serving 100,000+ residents. Metron currently has over 3,000 utilities utilizing the system. There are also no additional infrastructure or network maintenance costs to incur over the life of the system. The utility also won't have to concern themselves with leasing property for infrastructure. It really is as simple as installing the meter today and reading it online the next.

Metron is proposing a turnkey project. With experience in both manufacturing and installing water meters, Metron is offering to supply meters and use an in-house crew to install the meters.

Experience

Who We Are

Metron-Farnier Making A Difference With Smart Water Systems

Metron Farnier

Smart Water System

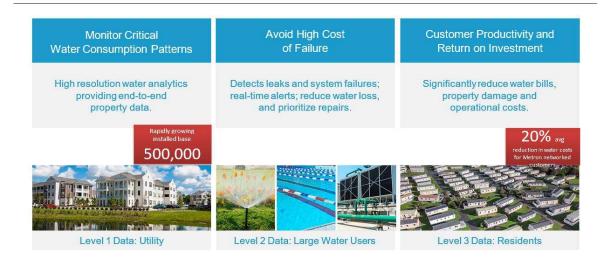
Metron-Farnier is a water data management company providing customers with industry-leading real-time water use analytics.



What We Do

Advanced Water Data Systems for Better, Faster, Informed Decisions

Metron:Farnier Smart Water System



Product Maturity and Future Roadmap

xii. AMI System

a. Provide the exact name and a narrative description of the AMI solution, from meter to software systems. Metron provides water meters that range from 5/8'' - 8'' in size that utilize single-jet meter technology. Metron includes VN Registers with each water meter. These registers calculate water consumption down to the minute throughout the day. The cell chip inside of the register connects with Verizon or AT&T's towers to get the information to our web portal. Metron provides a web portal named WaterScope. WaterScope is the utility and end user portal that allows access to view consumption data on a micro and macro level. Along with that, WaterScope can generate reports and send files for billing purposes.

b. Describe whether the system is available as Hosted or On-Premise or both. Hosted.

c. Software hosting is preferred. Specify the differences in hosting versus on- premise (if Proposer can provide either solution). Only Hosting.

d. Include a discussion of cyber-security measures applicable to protect: BWD's network, equipment, software, and customer data. Describe any security certifications currently held related to the proposed solution(s). Metron can provide documents that cover the security of our system upon completion of the contract. Metron has a \$1million Cyber-Security Insurance.

e. For a hosted AMI solution, an overview of respective NOCs, including third- party cloud services, uptime percentage, physical locations, security (both physical and cyber), and redundancy. Metron utilizes Microsoft Azure as it's cloud platform to pass information through before it gets to WaterScope.

f. Summarize the system maintenance agreement including terms and conditions. Provide a copy of Proposer's user support Service Level Agreement (SLA) as an appendix. The SLA should clearly indicate the severity levels, description of each level, guaranteed response times, availability of maintenance and support staff, and associated cost. See Appendix III

xiii. Meter Details

a. All meters must conform to NSF 61 standard. Metron conforms to NSF 61 standard.

b. Specify the meter types being proposed and provide their product
 information/brochures/cutsheets. Brass Single-Jet water meters, ranging from sizes 5/8" – 8".
 Appendix Lincludes cutsheets.

c. Polymer composite body water meters and/or polymer composite threads will

NOT be accepted. Metron provides brass water meters.

d. Describe how the product is configured (e.g. using handheld with IR port). Both over the air (using 2-way communication through Verizon's servers) and IR port.

e. Confirm the product can be pre-configured in the factory. Yes.

f. Describe the maximum number of digits that can be transmitted for a meter read for each meter size and the reading resolution of the meter. 8 Digits

g. Describe ability to re-program registers in the field and hardware that is required to support this activity. Utility workers will have a tablet application to reprogram units out in the field with IR devices.

h. Describe any accessories that are necessary for operation and maintenance of the product. Tamper screws/bits, tablet, IR device.

i. Verify that the production capacity for meters can satisfy the number and timeline identified in this RFQ. We verify this statement.

j. Provide the register battery type (e.g. alkaline, lithium, etc.) and life warranty provided (in years). Describe the conditions of these warranty(ies). Lithium D-Cell Battery, 20 years.

k. Describe how meters are identified and labeled. The meter shall be permanently labeled on the outside with the manufacturer's name, model number, meter identification or serial number, bar code of this number, and date of manufacture. The label should be weatherproof and attached to the meter where normal installation will not obscure it. Serial numbers on both meter body and register. Both are waterproof.

I. Battery life/replacement process. The battery is expected to last longer than 20 years. When covered under warranty, the replacement process is as follows: Ask Metron to generate an RA number, ship unit back and include RA number, Metron will ship a new unit to Borrego.

xiv. Endpoint Details

a. Specify the endpoints being proposed and provide product information/brochures/cutsheets. Find in Appendix I

b. Provide a detailed water meter compatibility matrix. Find in Appendix I

c. Describe the frequency of data recording, hourly reads should be stored, more frequent recording is preferred. The VN register is leading the industry with 1-minute data intervals.

d. Describe how many days of meter reads can be stored before there's loss of

data. Data is stored within the register for 45 days. Data stored in the cloud/portal will be stored longer than 10 years.

e. Registers must be able to detect and record low flow. For each meter type state the minimum flow that is guaranteed to be detected in gallons per time, e.g.

0.5 gallons in 5 minutes. See Appendix I

f. Describe how the product is configured (e.g. using handheld with IR port). Tablet with IR port.

g. Confirm the product can be pre-configured in the factory. Yes

h. Describe the maximum number of digits that can be transmitted for a meter

read for each meter size. 8 Digits

i. Describe ability to re-program endpoints over the air and in the field and hardware that is required to support this activity. Both over the air (using 2-way communication through Verizon's servers) and IR port.

j. Provide a complete list of events and alarms supported by the AMDMS. Conditions -Notifications

Leak, Threshold Leak, Intermittent Leak, High Usage, Backflow, Zero Use, High Meter Flow, High/Low Temperature, Unauthorized Use, Unexpected Use, Watering Event, Emergency Transmit.

k. Provide the endpoint battery type (e.g. alkaline, lithium, etc.) and life warranty provided (in years). Describe the conditions of these warranty(ies). Same as register.

Provide the reading frequency that the battery life warranty is based on. Explain if On-Demand Reads affect this warranty and, if so, to what extent. Describe battery replacement process.

1 minute data. Replacement is a new register.

I. Indicate if any remote antennae will be used (where the portion protruding through the lid relays the signal), the specifications around such device, and whether such device is traffic rated. Indicate how far above the lid the antenna protrudes. Installation must be in compliance with ADA requirements. The BWD prefers that no part of the antenna be higher than the plane of the top of the lid, particularly for meters in pedestrian areas. If required, there will be a pit-mount antenna that protrudes through the lid, but sits flush on top of the lid and is traffic rated.

m. In the case any remote antennae will be used protruding through Bilco-style vault doors or steel plates, Proposer shall provide an installation option that does not compromise the integrity and safety of the door or plate. Metron offers multiple antenna styles.

n. Describe any accessories that are necessary for operation and maintenance of the product. Tamper screws/bits, tablet, IR device.

o. Verify that the production capacity for endpoints can satisfy the number and timeline identified in this RFQ. Metron verifies.

k. If an AMI Network is required, provide radio frequency information to be used by the endpoints and whether licensing with FCC is required. N/A

I. Indicate how the AMI system will obtain readings from meters in ravines, canyons, vaults, and other transmission constraining settings. If Verizon service is not available the utility can try our AT&T option, manually read, or can purchase an option for a drive-by read.

m. If proposed AMI solution includes cellular endpoints, explain the proposed solution for areas with cellular dead spots. If Verizon service is not available the utility can try our AT&T option, manually read, or can purchase an option for a drive-by read.

n. If the proposed AMI solution includes cellular endpoints, provide the cellular carriers supported. Verizon & AT&T

o. Describe how endpoints are identified and labeled. The endpoint shall be permanently labeled on the outside with the manufacturer's name, model number, endpoint identification or serial number, bar code of this number, any required FCC labeling, input/output connections, and date of manufacture. The label should be weatherproof and attached to the endpoint where normal installation will not obscure it. Both the meter body and VN register are labeled. For billing and portal purposes, the important serial number is labeled on the register. Both are waterproof.

For the pit-installed products, provide:

p. Preferred mounting method and photographs of sample installations. Under the lid antenna is preferred.

q. Height of endpoint (antenna) above the meter lid. Note ADA compliance requirements and BWD's preferences stated above. Different antenna options, all ADA compliant.

r. Minimum requirements of the meter pit lid (material construction, maximum thickness, and diameter of hole if required). If pit mount antenna required, 2in diameter hole in lid is needed.

s. Minimum clearance needed between the top of meter/register to the bottom of pit lid.3 inches.

t. Description of how the radio is wired to the register (e.g. connector, no splicing will be allowed). There is no connection between register and radio, as Metron's endpoint is 2 in 1. Register has a coax connection with antenna.

xv. Meter Box Lid Details

a. The BWD has numerous boxes, extensions, and lids from various manufacturers already installed throughout its service area as described in Section 5.2. Required product must be universal to allow for use with existing installed standard size product from other manufacturers. Yes

b. BWD requires lids that are:

i. AMI compatible

ii. "bee-resistant"

iii. Do not have full penetration through holes (except for the endpoint antenna).

iv. ADA compliant once installed.

c. BWD prefers that lids that are available in 10k and 20k (H-20) load ratings. Yes

d. Verify that the production capacity for lids can satisfy the number and timeline identified in this RFQ. Yes

xvi. AMI Network Infrastructure

a. Provide the product cut sheets as an appendix to your SOQ. Include photographs, dimensions, and weight of proposed equipment. Find in Appendix I

b. Proposer's network design shall provide an adequate communications infrastructure to ensure that for all AMI meters, 98.5 percent will successfully report all daily readings within the last 72 hours, 97.5 percent will successfully report all daily readings within the last 48 hours and that at least 95 percent of all meters will successfully report all daily readings within the last 24 hours (Meters that have temporary physical barriers beyond the control of the District or the selected Proposer are excluded from these performance metrics). Proposer to define in detail any qualifiers to these requirements. Metron complies.

c. Provide the guaranteed interval read success rate and reporting duration for the proposed AMI system. Metron VNs backfill all 1-minute interval data.

d. Provide the guaranteed register read success rate and reporting duration for the proposed AMI system. Metron Guarantees 98% read success rate.

e. Provide the guaranteed on-demand read success rate and response duration for the proposed AMI system for a single request. N/A

f. The BWD will require a test and live production for the AMI Network Infrastructure. Describe the AMI go-live process and timing for transition from test to production. Since Metron is offering a Cellular AMI System, it is an install today and read tomorrow method. No programming/turn-on is needed, the units will be activated and available in WaterScope as soon as BWD receives the units. There is no transition from test to production.

g. Provide a list describing and a map showing the locations of each component of the proposed AMI network infrastructure and the antenna height (reference Appendix 2 for the preferred locations and maximum antenna heights). Proposer is solely responsible for determining the mix of network infrastructure (e.g. data collectors and repeaters), endpoint

placement strategies, and endpoint communication configuration needed to meet or exceed the performance requirements described herein. N/A due to Metron utilizing Verizon/AT&T's existing infrastructure.

h. The network infrastructure shall be sufficient to ensure that at least 70% of all the endpoint transmissions are received by two or more different components of the network infrastructure (e.g. data collectors, repeaters). N/A

i. Indicate the percentage of endpoints from which transmissions are expected to be received by only 1, 2, and 3 or more components of the proposed AMI Network system. N/A

j. State any special mounting requirements, including minimum height, pole, tower, and bracing restrictions, the recommended sighting, and the minimum separation from other radio, cellular, microwave, or other sources of potential interference. N/A

k. If pole- or tower-mounted, explain if the unit can be installed at the base with the antennae mounted on the tower. N/A

I. Verify that the production capacity for network infrastructure can satisfy the number and timeline identified in this RFQ. N/A

m. Describe the proposed approach to managing the installation of the AMI Network. N/A

n. Indicate the approximate time to construct the full AMI Network system, including manufacture, installation, commissioning of equipment, operation, testing, and certification.
 N/A

o. Describe the backhaul transports that are supported (e.g., Wi-Fi, cellular). Cellular

p. Explain if the product has the capability to store multiple readings in the case of a receiver being unavailable. If so, provide the storage limit of backup reads. 45 Days of 1 minute consumption totals.

q. Direct access to data is a requirement for the BWD. For a hosted system, describe how this access is provided, how security is ensured, and who 'owns' the data. The BWD prefers at

least ninety days of interval data to be readily available. Microsoft Azure stores the data, along with WaterScope. The data is stored in the cloud for longer than 10 years. BWD will own the data.

r. Describe any preventative maintenance requirements for the network infrastructure and the anticipated frequency of maintenance activities. Indicate in terms of FTEs the level of effort required to maintain the proposed network solution. Describe the type of work expected if the BWD performs the maintenance internally. Verizon/AT&T will maintain the system.

s. Briefly describe maintenance procedures in the event of a device malfunction or damage. BWD will have the option of replacing just the meter body, register, or both depending on what is damaged.

t. Describe if Proposer offers maintenance agreement for Proposer to perform maintenance or a Network as a Service (NaaS) option. N/A

u. Describe how the Proposer plans to safeguard performance levels over time if non-District devices are added within the service territory that cause additional 'noise' within the AMI Network. Describe procedures that will be used use to regularly check for, identify and remove interlopers on its licensed frequency(ies) or overpowered signals on unlicensed frequencies. Indicate who will be responsible for this effort. If BWD, describe provisions offered by Proposer or its system to assist in this effort. If Proposer, indicate the length of time such protection will be offered in association with this proposal/contract. Metron will assist with multiple solutions to achieve agreed performance levels.

v. Describe your recommended approach for adding additional infrastructure to cover areas of planned future developments. N/A

xvii. AMDM System

Provide, for the AMDMS being proposed, the following information regarding the application and the application Proposer:

a. The formal name and software version being proposed for implementation. WaterScope

b. Describe if the solution is available as Hosted or On-Premise or both. The District prefers a hosted solution. Hosted.

c. The AMI solution will provide extensive new information to the District to better manage its customers and their accounts, to provide insights in water use, to better run its operations, to reduce water loss through leaks, among others. Describe its capabilities and user interface(s). Due to the granularity of Metron's data intervals, BWD will have all abilities to better manage and understand their water use. From leaks, indoor use, and irrigation both BWD and it's customers will have abilities to access reports and alerts to understand usage.

d. Diagnostic tools are essential to the efficient use of BWD field staff's time. Describe the diagnostic tools and their interfaces (e.g., a field technician handheld, text messages to staff cell phones, emails etc.). Tablet and IR device allows the utility to program and run diagnostics off of the register. The phone app, text messages, email, and the online portal are all ways for the utility to receive information of usage.

e. Describe the solution's resiliency in times of network outages. If the solution provides a means to read meters via a nearby handheld device and transmit the reads from the handheld to the AMDMS, describe it. 45 days of consumption data/reads stored in the register and will backfill when networks is up and running.

i. How long will the handheld operate between battery recharging? N/A

ii. How many meter reads can it store internally? 45 daily reads.

iii. How are the meter reads transmitted to the AMDMS? Through the cellular system.

f. Timely and accurate alerts to leaks and other potential problems will enable the District to reduce water loss in the system. Water loss reports and alerts are enabled in WaterScope.

Describe the alerts for undesirable conditions, such as leaks, backflows and tampering.
 Email alerts will be sent to desired employees on a daily basis.

ii. Describe the methods of alert notification. Email, Text, web portal, push notifications.

g. Describe any capabilities to locate leaks in BWD's system. If BWD desires, WaterScope can create DMA groups to help narrow down leak locations.

h. Currently the only customer access to BWD systems is for payment of bills, which is provided by Springbrook's CivicPay portal. The AMDMS solution must provide a website that can be accessed thru the CivicPay portal and preferably additional iPhone and Android mobile applications, Customer Portal. Describe the capabilities provided to BWD's customers in both the website and on the mobile applications: All access for customers in the web portal is controlled by what the utility would like them to see. The customer app is also controlled by the utility. Reads, usage, and alerts are available in both.

i. How is metered usage data displayed, graphically, tabular, other? How much history will be maintained? Is the display of this information configurable? Data is displayed graphically, with the ability to grab the raw data for numerical breakdown. 10 years of history will be maintained. This can be customized.

ii. Can the user set alerts, if so what are they and how are they set? Also how are the alerts delivered to the customer? Yes, users can receive all alerts that the utility can receive. The utility has ability to restrict which alerts they want the customers to receive. Alerts can be received through text or push notifications.

iii. What other information and analytics are available? Usage, flow rates, leaks, irrigation, residential indoor breakdown, water loss, comparative, water budget, and much more.

i. Direct access to data is a requirement for the BWD. For a hosted AMDMS, describe how this access is provided, how security is ensured, and who 'owns' the data. The BWD expects at least three (3) years of interval data to be readily available in the hosted AMDMS. The BWD requires access to hosted data periodically for their own use beyond the three-year (3) requirement. Describe how the Proposer would meet these requests/requirements. Indicate whether there is a charge for this service (do not specify the amount). BWD will have the ability to grab the raw data out of the Azure servers for longer than 3 years of interval data. Microsoft

and Verizon both have high-level security protocols. If desired Metron can deliver security documents. There is no charge for this data.

j. A narrative description of the proposed AMDMS, system components, and capabilities. Clearly state what is included in the base offering. Include the following: Metron is offering 10 years of access to WaterScope's web portal for both the utility and customer. This includes 1minute data intervals for each unit deployed in BWD's system. Billing integration is included.

i. The system must provide alerts for undesirable situations such as leaks, backflows, tampering and error conditions. These desired alerts are provided.

1. The alerts must be configurable so BWD can tune the system to best meet its needs, explain the flexibility the AMDMS alert system has when it comes to configuring alerts and alert delivery. Alerts are configurable.

2. Alert delivery: Explain how the AMDMS alert system would integrate into BWD's current notification system. BWD field and key office staff are issued cell phones for business use. During the weekday work hours alerts are received by office staff and if field staff is needed the office staff will call the lead on duty. For non-business hours customer calls are taken by an answering service who will call the designated on-duty BWD person. If that person cannot be reached the answering service will call the backup. Designated on- duty and backup staff are rotated weekly and the answering service is updated. BWD will have the ability to configure the alerts delivery methods and timely manner of the alerts.

3. Alert severity: Alerts have different severities and require different responses and response times. Severe problems missed because of an alert or alert delivery failure must be avoided. Also, over alerting can be just as problematic, if there are too many non- urgent alerts sent, it becomes noise and the alert system can be ignored because it's too difficult to screen out the real problems. Explain how the AMDMS ensures delivery of high quality actionable alerts. Metron allows the utility to adjust the alert schedules and recipients. For "real problems" Metron has incorporated an emergency transmit alert where a large leak has begun, or no usage is occurring, and it sends a text immediately.

ii. Leaks: Water in BWD's desert district is precious and the loss of water through leaks is not only wasteful but upsetting to the community and can cause a loss of goodwill. Discuss:

1. Can the system detect leaks on the consumer side? If so, what conditions, (e.g. slow leak, burst pipe, etc.) can trigger an alert? Yes, WaterScope can detect trickle leaks, but also allows the utility to change parameters to get alerts for leaks of an actionable size.

2. Can it detect leaks in BWD's pipes? If so, how does it detect the location of a leak in the pipeline? If so, what conditions, (e.g. slow leak, burst pipe, etc. can trigger an alert? How accurate is the leak location detection?

3. Can BWD set thresholds for leak detection (e.g. 0.1 gpm for a 3/4" meter)? If yes, describe. Yes, WaterScope allows the utility to adjust thresholds of leaks for each sized meter.

4. Can customer set thresholds for leak detection (e.g. 0.1 gpm for their meter)? If yes, describe. Yes, customers can get leak alerts for their own meter.

iii. The AMDMS must have the ability to generate analytic data to readily assist the utility with predictive meter maintenance, water loss, consumptive water use by group or subgroups of meters. See Appendix II

1. The system should be able to differentiate indoor versus irrigation water use and produce associated analytical reports. Yes, WaterScope is capable of this.

2. The system should be able to maintain analytics for special classifications of meters such as hydrant meters and irrigation meters. Yes, WaterScope is capable of this.

3. The system shall be able to maintain analytics for special classifications of meters such as hydrant meters and irrigation to assist in in water loss calculations and consumptive use by account classification. Provide details on the AMDMS analytic capabilities and their user interface(s). Yes, WaterScope is capable of this. Utilities are able to create groups/segments and run reports based on those certain groups.

iv. A discussion of Validation, Estimation, and Editing (VEE) capabilities.

v. A concise list and description of all operational reports (e.g., system monitoring, meter status, VEE exceptions, etc.) and analytics (e.g., historical use trends, revenue forecasting, leak detection, etc.) available. See Appendix II

vi. A discussion on virtual metering (DMA or aggregated) capabilities: See Appendix II

1. Can user-defined aggregated meters be individually configurable, depending on the user, and can the individual configurations be stored? Can a virtual meter be selected by any attribute within the billing system, such as residential, commercial, etc.? Can a user define stored alerts/alarms for each virtual meter? Can each user define multiple virtual meters? Yes

2. Describe the methods for defining virtual meters. Can virtual meters be selected based on attributes synchronized with the billing system such as customer classes (residential, commercial, industrial) or account status or meter size? Can ESRI GIS-generated meter numbers be imported to define a virtual meter such as each water meter within a water pressure zone? Can user-generated lists of meter numbers be imported to define a virtual meter? Describe any other methods/tools available to define virtual metering. Utilities can create groups or segments to help narrow down analytics. These can be incorporated into the billing system.

 Is any training or assistance available to support definition of virtual meters for the Utility? Yes

4. Once a virtual meter is created, can the user define the name of the virtual meter and store it in a library for others to use? Yes

5. Can virtual metering data be exported for use in ESRI GIS or third- party reporting applications? Yes

vii. Describe individual user ability to establish user-defined alarms based on user-defined thresholds for operational reports and virtual metering. See Appendix II

k. Discuss the AMDMS resiliency. BWD maintains a 24x7 water service for its customers and needs the tools to ensure the AMI system is running correctly. However, it is not uncommon for wireless communication systems to have outages or missing data transfers. Describe the tools (reports, alerts, other) that. WaterScope will alert for missed reads, and the register will backfill data and reads once the system is up and running again.

i. Describe how the system works if a register fails to transmit a daily update. Does the AMI system estimate usage for the missing data and display the estimates? If so, how many consecutive days of missing data will the system fill in estimated usage data? Is there any notification or indication that estimated data is being used? If so how? WaterScope will alert for missed reads, and the register will backfill data and reads up to 45 days once the system is up and running again.

ii. If a register fails to transmit data for multiple days in a row, how is BWD notified? Can
 BWD specify the number of consecutive missed days that will trigger the notification? Yes, BWD
 will be notified of the missing read. Also, WaterScope has details in signal quality and strength
 to notify poor signal areas.

iii. Describe the other register/meter failure or problem modes (e.g. low battery) and how those are made available to BWD. Metron has access of low battery, tamper, low signal, and reception problems that can be alerted.

iv. If a register fails to work the meter information must be read and entered in the AMI Vendor's system. Describe how this works. Are manual reads keyed into the handheld device application? Can a picture of the meter be taken and stored in the system? Manual read would be necessary.

I. Discuss methodology and roll-out approach. Include: Once the meters are installed they will be available in WaterScope. From there Metron can create a billing transport file or create an API to integrate into BWDs billing system.

i. A discussion on what interface mechanisms are available to facilitate integration with other utility systems (e.g., MultiSpeak, REST API, etc.). All of the above can be made available.

ii. The District will require a test and production environment for the AMDMS. Describe the AMDMS go-live process and timing for transition from test to production. N/A

m. Include discussion of cyber-security measures applicable to protect the

District's software and customer data. Metron has a \$1M Cyber Security Insurance. Also, Metron has incorporated high level security protocols.

n. For a hosted AMDMS solution, an overview of respective NOCs, including third- party cloud services, uptime percentage, physical locations, security (both physical and cyber), and redundancy. Microsoft Azure cloud services.

o. Proposer should provide documentation to support future scalability and expandability beyond what is initially required to support BWD's implementation. The only charge to expand is to purchase more meter/VN registers. All updates are included with WaterScope.

p. Provide the implementation process for releasing and applying software and firmware upgrades, bug fixes, and patches. Include overall implementation timeframe, Proposer effort/time/resources, and client effort/time/resources. Discuss the internal QA procedures currently in place to ensure bug fixes, patches, and upgrades are fully tested and validated prior to release. Discuss internal QA procedures currently in place to ensure the identification and correction of system security vulnerability. Metron encourages feedback and request from utilities for future development. All bug fixes are included in updates to the system.

q. Summarize the system maintenance agreement including terms and conditions. Provide a copy of Proposer's user support SLA as an appendix. The SLA should clearly indicate the severity levels, description of each level, guaranteed response times, availability of maintenance and support staff, and associated cost. Maintenance is included in the cost of the connectivity plan.

Implementation Approach

<u>Overview</u>

Metron has a dedicated field service division with meter replacement contracts being a primary function. The division has a full-time staff of specialists for meter replacement projects. The remainder of this document describes our qualifications, team, project methodology and methods.

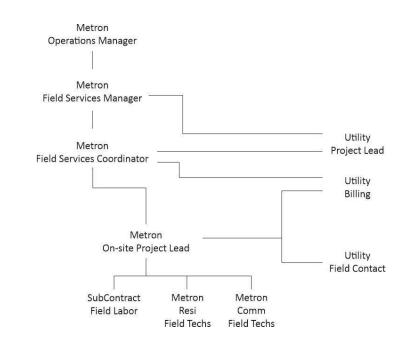
Qualifications

Metron has a dedicated field service division with meter installation contracts being a primary function. The division has a full-time project manager, coordinator, scheduler and multiple technical leads. We have extensive experience in residential and commercial meter replacements, in both indoor and outdoor locations. We also perform register retrofits on competitor meters.

Metron maintains well trained crews for meter replacements along with dedicated vehicles and tools. We utilize a cloud-based software to build project books for scheduling and logging of all field work. This project book is shared with the utility during the project.



Field Services Team



Metron typically structures its project team as shown below:

Field Services Manager

The Metron Field Services Manager will have overall responsibility for the project. He will arrange the site survey, build the project team, lead the kickoff, oversee the project execution, direct training and perform the commissioning.

Field Services Coordinator

The Field Services Coordinator will serve as the communication hub for the project interfacing with the on-site project lead and installers as well as the utility contacts. The project coordinator will also issue the weekly progress reports and be on-call of the utility for any questions.

On-site Project Lead

The on-site project lead will serve as the lead for the field technicians and ensure quality of work and complete/accurate field data is being maintained.

Field Technicians

The field technicians will perform the meter replacements.

Subcontractors

Any subcontractors hired for the project will be licensed and insured. Typically, subcontractors would only be used for physical labor such as digging/excavation on non-standard work.

Utility Contacts

Typically, utilities will have three primary contacts on the project: A project lead, billing/customer service and a field contact. We want to make these interfaces as clear as possible to avoid any confusion or frustration for the utility.

Project Methodology

Metron's project methodology defines our processes and methods before, during and after the project. The following diagram shows the methodology from start to finish. Each phase of the methodology is described.



Project Review

The project review is a pre-sales effort to ensure an understanding of the scope of work and the utility's requirements. This will involve sales, field service and utility personnel. In many cases, Metron Field Service will want to visit the utility for a short site survey.

<u>Kickoff</u>

The kickoff meeting is a necessary part of the project in order to establish all working parameters the project. During the kickoff meeting, Metron will establish all utility requirements with the following list as a starting point.

- Project Team
- Certificate of Insurance w/ utility as co-insured
- Vehicles/Tools
- Project List
- Residential/Commercial Meters
- Personnel Requirements
- End-Customer Interaction
- Appointment Scheduling
- Installation Schedule
- Data Collection
- Progress Reporting
- Billing System Interface
- Training
- Standard vs Non-Standard Work
- Project advertisement / Mailings / Door hangers

Following the kickoff meeting, Metron Field Service will send a report to the utility with notes on all of these parameters plus any other requirements brought forward by the utility.

The field services contract will have clauses on two important topics:

- Accessibility: Metron will have the responsibility to attempt to access the site (via on-site visit or appointment) three times. If we are not able to gain access, the utility will then be responsible for those sites.
- Standard vs non-standard work: The Metron contracts are intended to be meter replacement contracts and all of our training, tools and methods as well as our pricing are targeted for that function. In is usually inevitable that other associated work (such as digging, excavation, line work, etc.) is required. However, rather than inaccurate estimates of this work in the pricing, we isolate this work as non-standard and typically hire local subcontractors to perform the work. Non-standard work will be pre-approved by the utility and invoiced at a reasonable rate.

Project Execution

The project execution is the meter replacement work in the field. Residential and commercial meter replacements are typically handled as separate engagements due to the complexity of larger commercial meters which may also require appointments due to the shutdown. Within the project, the field technicians operate with the "methods" as described in the following section.

Billing System Interface

Metron' Waterscope software has a flexible interface for billing/CIS systems. At the start of the project, a Metron IT representative will contact the utility and begin the process to interface the utility's system with Waterscope through file transfers. This usually serves as a method to update the utility's system during the project as well as for billing purposes.

Training

Metron will conduct multiple stages of training for different groups within the utility. In general, these groups will be field, administration and customer service, but the utility can request additional training.

We typically perform a brief training at the beginning of the project to get the utility personnel a basic understanding of our meters and systems:

Field:	Meters/Registers/Antennas and local communication/configuration
Admin:	Welcome to Waterscope training plus initial login credentials
Customer Service:	Welcome to Waterscope training plus initial login credentials
Billing	Welcome to Waterscope training plus initial login credentials and interface
	discussion

Towards the end of the project, Metron will work with the utility to schedule full training on the meters and system in the categories listed above. Metron will work with the utility on the training schedule and content.

Commissioning

Commissioning is the completion of the project and transfer of all final documentation.

Methods

Project book

The project book is built within Microsoft Teams and will contain all of the pertinent project details:

Meter list: This is the key information from the utility and must contain a list of all meters with addresses, locations (if available), existing meter number. Any accounts which will need installation appointments (i.e. indoor meters, commercial meters at business, etc.) will also require contact names and phone numbers.

Schedule: This is the project schedule which follows our methodology on the utility project. The percent complete per schedule will be maintained during the project.

% Complete: This is the percent complete based on the meter quantities.

Appointments: If appointments are required, Metron's scheduler will call to arrange dates/times for the appointments and build an appointment sheet for the installers.

Install Sheet: This is the list that the installers will access to record the meter replacement information such as old meter number, final read and new meter/register number.

This project book will be shared with the utility (as read-only).

Data Recording

In addition to the install sheet in the project book, Metron's field installers can also take pictures of the old meter and the new meter at the site. These pictures would be located in a folder with access by the utility. All data is recorded and then reviewed each day. If data recording issues are detected, the specific installer would revisit the site to resolve the issue.

Progress Reporting

Although the utility will be given access to the project book, the on-site lead and/or the project coordinator can meet with the utility on a regular basis as requested.

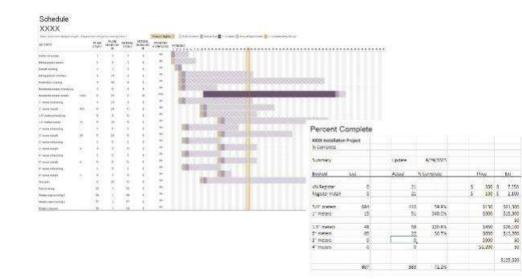
Personnel Standards

All Metron personnel will be required to wear a badge which shows their picture along with the Metron Field Service logo. Metron also highly recommends that the utility posts the project on their website and also provides a letter stating Metron Field Service's legitimacy in the area.

Customer Interaction

All customer interaction requirements presented by the utility at the kickoff meeting will be followed by all field personnel. Any issues will be conveyed to the utility immediately.

Project Book Example:



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<u>Appendix I</u>

<u>MetronFamier,</u>

Smart Water Meters & Systems

The innov8-VN is a cellular water meter register which mounts with all Metron water meters. The innov8-VN enables the most advanced meter data and analytics in the industry. The register can also be adapted to many other traditional water meters providing instant AMI upgrades to deployed meters. The register senses the meter magnetic down to ¼ turns and stores data in 1 minute or 5-minute intervals. The innov8-VN register utilizes the Verizon Wireless ™ network to securely and reliably deliver readings, high resolution interval data and diagnostic data to the cloud-based meter data management system (MDMS). Utilities and consumers can access data via the powerful Waterscope® web portal and via email notifications.

SPECIFICATIONS

Operational

Cellular Channel					
Carrier:	Verizon Wireless				
Method:	LTE Cat-M				
FCC/IC:	License exempt				
Secondary:	Proprietary InfraRed port				
Onboard Storage:	5 min intervals: 227 days				
-	1 min intervals: 45 days				
LCD:	8 digits				
Display:	Duplicates meter/register				
1.2.2	Configurable digit underlines				
Units:	G, Ft3 or m3				
Battery:	One (1) 19Ahr non-replaceable				
Type:	Lithium Thioynl Chloride				
Lifetime:	10 years nominal				
Lifetifiet	10 years nonmai				
Physical					
Dimensions	3.6W x 3.6H x 2.5D inches				
w/o antenna	91W x 91W x 63.5D mm				
Weight:	0.70 lb (0.31 kg)				
Tomporaturo					
Temperature Storage	-20° to 140° F (-6° to 60° C)				
Operation	-20° to 140° F (-18° to 60° C)				
Operation	-0 10 140 P (-18 10 00 C)				
Humidity:	0 to 100% RH condensing				
and an and a state of a	Fully submersible (IP-68)				
	1.22 Action Complete Control Contro				

Innov8-VN Cellular Water Meter Register



DESIGN

Construction: The innov8-VN register is a compact, fully encapsulated package for all environments.

Meter Attachment: A standard plastic meter housing provides a robust and tamper-resistant attachment to all Metron water meters. Metron can also provide attachment housings for many other meter types.

Outputs: The innov8-VN register can be supplied with a 3wire standard AMR output. The output cable can be ordered in different lengths and with Itron or Nicor waterproof connectors.

Antennas: The innov8-VN Register has an antenna port which can accommodate either a local antenna or a remote antenna for extension through walls or outside pits/vaults.

Activation: All innov8-VN units come from the factory activated and provisioned on the Verizon Wireless network. Consumption data on the Waterscope web portal can be accessed within 24 hours of installation.

Operation: The innov8-VN Register has an internal sensor which tracks the meter's measuring element and stores consumption every log interval. The unit will also perform onboard measurement diagnostics regularly. Once per day during super off-peak hours (1 to 6am local time), the unit will negotiate a secure channel with the Verizon Wireless tower and transmit a daily packet with the current meter read, the daily interval logs and other diagnostic data. Following the transmission, the unit waits for any commands from the cloud server (such as configuration or data backfill) prior to returning to normal operational mode.

Metron-Farnier 5665 Airport Blvd Boulder, CO 80301 U.S.A. innov8-VN Register Product Datasheet Doc v# p303.449.8833 f303.449.1464 www.metronfarnier.com

Metron Familer,

Smart Water Meters & Systems

FUNCTIONALITY

Configuration: Configuration can be performed via the local InfraRed (IR) port with Metron's IR bridge. The IR bridge can be coupled via USB to a Win10 computer with the Communicator software or be operated in a standalone mode.

Configuration Options Index Ratio (meter cali LCD Configuration Measurement units Log Interval 3-wire output digits	bration)	5
Datalog capacity:	227 days with 5-min intervals 45 days with 1-min intervals	Metron has teste and offers compa measuring eleme
Data resolution:	per Index Ratio	types of meters.
Data intervals:	Five (5) min (default) or One (1) min	for questions on o
Data Backfill:	Automatic from MDMS	Badger:
OTA Updates:	Available	
Onboard Time:	Synced with Verizon	Sensus:
Security:	VPN and encryption Contact Metron for info	
Flags/Alerts		Neptune:
Consumption		
 Leak / Thresho 	old Leak / Intermittent Leak	
 High Usage / Z 	Mueller:	
- Backflow		
	Unauthorized Usage	
- High/Low Tem	2.53	Master Meter:
- Watering Ever	It	Flat and
Diagnostic - Low Signal Stre	ngth	Elster:
- LOW Signal Stre	ingth	Zenner:
DISCLAIMERS		RG3:

Transportation: The innov8-VN Register contains a lithium battery and thus is prohibited from shipment by AIR. Please conform with all shipping regulations for lithium batteries.

Safety: The innov8-VN operates with radio frequency (RF) during its cellular communications. Metron can provide a whitepaper covering the potential health effects of smart meters.

Disposal: The battery inside the innov8-VN is not replaceable and removal should never be attempted. The innov8-VN units should be disposed of in accordance with local regulations.

Metron-Farnier 5665 Airport Blvd Boulder, CO 80301 U.S.A. innov8-VN Register Product Datasheet Doc v# p303.449.8833 f303.449.1464 www.metronfarnier.com

COMPATIBILITY

The innov8-VN is compatible with a wide range of industry registers and electronic meters.

Metron-Farnier: Spectrum residential meters Altair residential meters Spectrum commercial meters Enduro industrial meters Enduro fire service meters Challenger turbine meters Voyager hydrant meters

Metron has tested meters from other meter manufacturers and offers compatibility with many meters with magnetic measuring elements. The following shows a sample of the types of meters. Consult with your Metron representative for questions on compatibility or testing.

Badger:	PD meters Turbine meters
Sensus:	PD meters Turbine meters
Neptune:	PD meters Turbine meters
Mueller:	PD meters Turbine meters
Master Meter:	PD meters
Elster:	PD meters
Zenner:	PD meters
RG3:	PD meters
Hendey:	PD meters

WARRANTY

Please contact your Metron representative for formal warranty certifications.

LEGAL

Waterscope is a registered trademark of Metron-Farnier. All other trademarks and company names listed in this document are the property of the associated companies.

Metron Farnier,

Smart Water Meters & Systems

Residential Spectrum Meters

APPLICATIONS

The Spectrum Single-Jet Meter is the widest range, single measuring element meter available to U.S. utilities. The Spectrum residential meters are designed for extremely wide range and long-term accuracy. The single-jet technology is highly impervious to dirt, sand or grit in the water system. The combination of design simplicity, superior grade materials, and high quality manufacturing standards allows for years of virtually new meter performance with no maintenance.

The Spectrum residential meters are available in composite (reinforced plastic) and lead-free bronze models across all common residential sizes.

Coupled with the advanced innov8 registers, the Spectrum single-jets are the meter of choice for your revenue assurance and water loss programs.

OPERATIONS

Incoming water rotates a suspended impeller that is magnetically linked to the register. A low friction tungsten carbide bearing supports the impeller at low flow rates while a tungsten carbide thrust bearing provides the support at high flow rates. This unique "dual bearing" design provides unparalleled accuracy and durability at both high and low flows.





@ low flow

@ high flow

To maintain accuracy, the meter must be installed horizontally (±10°) in the direction of water flow.

All Spectrum Model D meters utilize innov8 registers. These sealed electronic registers provide a high resolution interface to the meter and have multiple cellular, AMR, AMI and SCADA outputs. All registers are attached with a robust tamper-resistant housing.



DESIGN FEATURES

- High accuracy exceeding high and low range of AWWA residential standards
- Starting flow below 1/16 gpm
- Excellent performance in adverse water conditions
- Advanced materials for long-term durability
- Unaffected by sand or small debris in line
- No straight pipe requirements upstream or
- downstream of meter
- High resistance to freezing
- Lightweight, compact design for simple installations
- No strainer requirement
- Compatible with all innov8 registers and associated AMR/AMI capabilities.

MATERIALS

All residential Spectrum Model-D meters are designed and manufactured to meet or exceed AWWA C712 standard design and performance specifications. All Models are maintained with NSF-61G lead-free certifications.

STANDARDS

AWWA C712 – Single-Jet Meters NSF-61G – Drinking Water System Components Health Effects

Metron-Farnier, LLC 5665 Airport Blvd Boulder, CO 80301 U.S.A.

MECHANICAL SPECIFICATIONS

Spectrum 15D Construction: Threads Lay Length

Spectrum 25D Construction: Threads Lay Length

Spectrum 30D Construction: Threads Lay Length

Spectrum 30DB

Construction: Threads Lay Length

Spectrum 30DL

Construction: Threads Lay Length

Spectrum 50DL

Construction: Threads Lay Length

MATERIALS

S25/S30Dx models Composite Body & Top-plate: Brass Body & Top-plate: Impeller: Impeller Bearing: Impeller Pivot: Impeller Shaft: S50DL model Body: Impeller: Impeller: Impeller Bearings: Impeller Shaft:

Register Housing:

MARKINGS

Engraved on Meter Body:

Metron-Farnier 5665 Airport Blvd Boulder, CO 80301 U.S.A. AWWA 5/8x1/2" (15mm) Short Composite 3/4" NPSM 3.9" (100 mm)

AWWA 5/8x1/2" (15mm) Composite 3/4" NPSM 7.5" (190 mm)

AWWA 5/8x3/4" (15x20mm) Composite 1" NPSM 7.5" (190 mm)

AWWA 5/8x3/4" (15x20mm) Lead-free brass body + Composite plates 1" NPSM 7.5" (190 mm)

AWWA 3/4x3/4" (20mm) Composite 1" NPSM 9.0" (230 mm)

AWWA 1" (25mm) Lead-free brass 1.25" NPSM 10.75" (273 mm)

Reinforced Nylon (Polyamide 12) EcoBrass™ - Lead Free Brass Polypropylene Nivaflex Sapphire Tungsten Carbide

Low lead Bronze: ASTM C875 Polypropylene Tungsten Carbide AISI 303, Tungsten Carbide tip

Thermoplastic

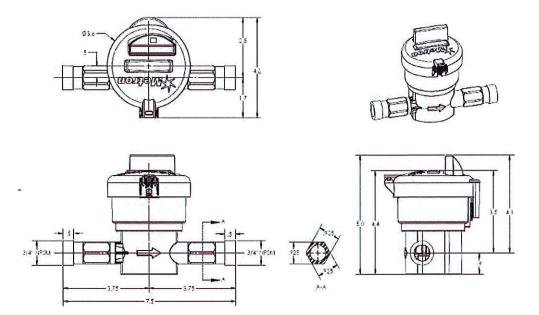
Model Serial Number Date of Manufacture NSF-6 Direction of Flow

Residential Spectrum Meters

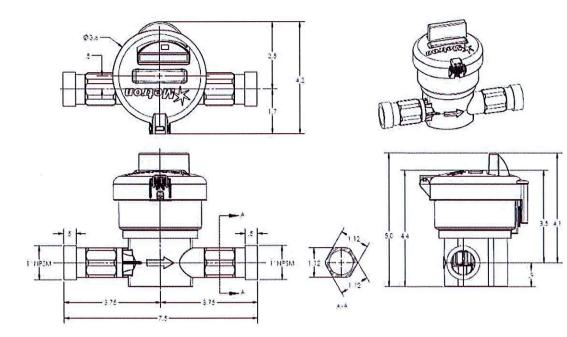
DIMENSIONS

Spectrum 15D – 5/8" Short: Contact Metron

Spectrum 25D - 5/8"



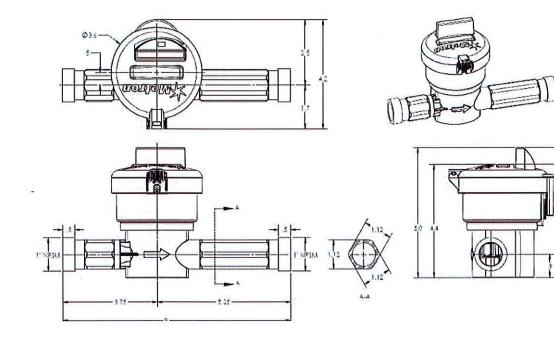
Spectrum 30D and 30DB- 5/8x3/4"



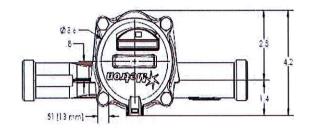
Metron-Farnier 5665 Airport Blvd Boulder, CO 80301 U.S.A. p303.449.8833 f303.449.1464 www.metronfarnier.com

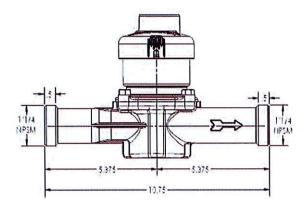
DIMENSIONS

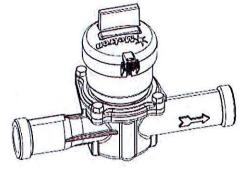
Spectrum 30DL - 3/4"

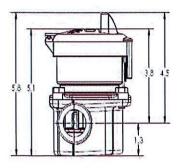


Spectrum 50DL – 1"









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FLOW & PRESSURE SPECIFICATIONS

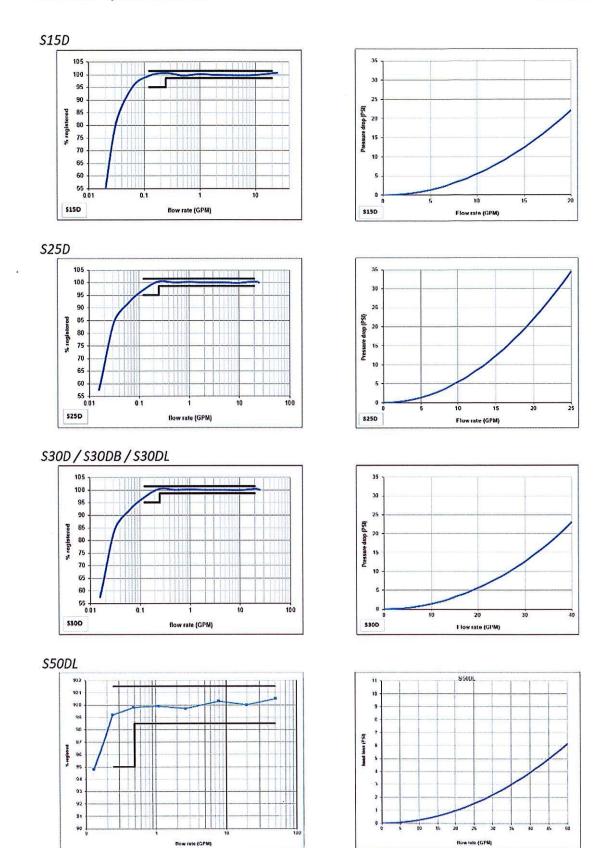
Spectrum 15D – 5/8" Short Model		
Operating Range (98.5 to 101.5%)	0.088 to 15 gpm	(0.02 to 3.4 m3/hr)
Low Flow (95% min)	0.06 gpm	(0.014 m3/hr)
Max Continuous Duty ¹	15 gpm	(3.4 m3/hr)
Max Intermittent ²	20 gpm	(4.5 m3/hr)
Pressure Loss at Max Continuous	10 psi	(0.69 bar)
Max Operating Pressure	230 psi	(15.9 bar)
Max Operating Temperature	140 °F	(60 °C)
Spectrum 25D – 5/8" Model		
Operating Range (98.5 to 101.5%)	0.125 to 20 gpm	(0.028 to 4.5 m3/hr)
Low Flow (95% min)	0.0625 gpm	(0.0142 m3/hr)
Max Continuous Duty ¹	20 gpm	(4.5 m3/hr)
Max Intermittent ²	30 gpm	(6.8 m3/hr)
Pressure Loss at Max Continuous	22 psi	(1.51 bar)
Max Operating Pressure	230 psi	(15.9 bar)
Max Operating Temperature	140 °F	(60 °C)
Spectrum 30D / 30DB – 5/8x3/4" Mode	el	
Operating Range (98.5 to 101.5%)	0.125 to 30 gpm	(0.028 to 6.8 m3/hr)
Low Flow (95% min)	0.0625 gpm	(0.0142 m3/hr)
Max Continuous Duty ¹	30 gpm	(6.8 m3/hr)
Max Intermittent ²	40 gpm	(9.1 m3/hr)
Pressure Loss at Max Continuous	13 psi	(0.9 bar)
Max Operating Pressure	230 psi	(15.9 bar)
Max Operating Temperature	140 °F	(60 °C)
Spectrum 30DL – 3/4" Model		
Operating Range (98.5 to 101.5%)	0.125 to 30 gpm	(0.028 to 6.8 m3/hr)
Low Flow (95% min)	0.0625 gpm	(0.0142 m3/hr)
Max Continuous Duty ¹	30 gpm	(6.8 m3/hr)
Max Intermittent ²	40 gpm	(9.1 m3/hr)
Pressure Loss at Max Continuous	13 psi	(0.9 bar)
Max Operating Pressure	230 psi	(15.9 bar)
Max Operating Temperature	140 °F	(60 °C)
Spectrum 50DL — 1" Model		
Operating Range (98.5 to 101.5%)	0.5 to 70 gpm	(0.114 to 15.9 m3/hr)
Low Flow (95% min)	0.125 gpm	(0.028 m3/hr)
Max Continuous Duty ¹	50 gpm	(11.4 m3/hr)
Max Intermittent ²	70 gpm	(15.9 m3/hr)
Pressure Loss at Max Continuous	8.0 psi	(0.55 bar)
Max Operating Pressure	230 psi	(15.9 bar)
Max Operating Temperature	140 °F	(60 °C)

Notes

- 1 Starting flow rate for reference only
- 2 Max Continuous defined by AWWA as flow rate which can be maintained 24 hrs/day x 7 days/week
- 3 Max Intermittent defined as flow rate which can be maintained 1 hr/day average

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Residential Spectrum Meters



Metron-Farnier 5665 Airport Blvd Boulder, CO 80301 U.S.A.

Metron Familier, Smart Water Meters & Systems

Small Commercial Spectrum Meters

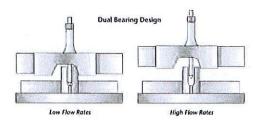
APPLICATIONS

The Spectrum Single-Jet Meter is the widest ranged, single-measuring element meter available to U.S. utilities. The operation of the single jet element allows the meter to be applied in the vast majority of potable cold water, small commercial applications. These meters are designed with a very high range, including low flow performance equaling or exceeded all other metering technologies. Coupled with the advanced innov8 registers, the Spectrum single-jets are the meter of choice for your revenue assurance and water loss programs.

All Spectrum Model-D meters are top-loading, chamber designs which allow for field maintenance and repairs.

OPERATIONS

Incoming water rotates a suspended impeller that is magnetically linked to the register. A low friction tungsten carbide bearing supports the impeller at low flow rates while a tungsten carbide thrust bearing provides the support at high flow rates. This unique "dual bearing" design provides unparalleled accuracy and durability at both high and low flows.



To maintain accuracy, the meter must be installed horizontally $(\pm 10^{\circ})$ in the direction of water flow. The Spectrum 88DL and 88 DLT come with an integral test port on the outlet. Although regular maintenance is not required, the Spectrum Model D meters have a toploading measurement chamber for simple access without removing the meter from service. The chamber is bolted to the meter body and secured with a tamper seal.

All Spectrum Model D meters utilize innov8 registers. These sealed electronic registers provide a high resolution interface to the meter and have multiple cellular, AMR, AMI and SCADA outputs. All registers are attached with a robust tamper-resistant housing.



Spectrum 130D

DESIGN FEATURES

- High accuracy below AWWA standards
- Wide range-1000:1 turndown
- Superior low flow registration
- Compact and light
- Convenient options for various lengths and connections
- Low pressure drop
- No regular maintenance
- Excellent performance in adverse water conditions
- Unaffected by sand or small debris in line
- No straight pipe requirements upstream or downstream
- No strainer requirement
- 5-year flange-to-flange warranty
- 20-year warranty on meter body
- Compatible with all innov8 registers and associated AMR/AMI capabilities.

MATERIALS

All Spectrum Model-D meters are designed and manufactured to meet or exceed AWWA C712 standard design and performance specifications. All Models are maintained with NSF-61G lead-free certifications.

STANDARDS

AWWA C712 – Single-Jet Meters NSF-61G – Drinking Water System Components Health Effects

Metron-Farnier, LLC 5665 Airport Blvd Boulder, CO 80301 U.S.A.

MECHANICAL SPECIFICATIONS

Spectrum 88DL	<u>1.5-inch (40mm)</u>
Flanges	Oval 2-bolt
Lay Length	13" (330 mm)
Dimensions	See drawing
Weight	9.95lb (4.5 kg)
Test Plug	1" Integral
Test Port	Integral 1" NPT threads
Spectrum 88DLT	<u>1.5-inch (40mm)</u>
Connection	Female 1.5" / 11.5 NPT internal threads
Lay Length	12.625" (319 mm)
Dimensions	See drawing
Weight	8.15lb (3.69 kg)
Spectrum 130D	<u>2-inch (50mm)</u>
Flanges	Oval 2-bolt
Lay Length	9.75" (300 mm)
Dimensions	See drawing
Weight	13lb (5.8 kg)
Test Plug	Available on spool
Brass Spacer Spools*	Lead-free flanged spools for 15.25" and 17" LL

* Contact Metron for information on brass spools and couplers.

MATERIALS

Body & Top-plate:
Impeller:
Impeller Bearings:
Impeller Shaft:
Register Housing:

TAMPER FEATURES

Meter Body Register

MARKINGS

Engraved on Meter Body:

ASTM C875 - Lead Free Bronze Polypropylene Nylon with Carbon Fiber AISI 303, Tungsten Carbide tip Thermoplastic

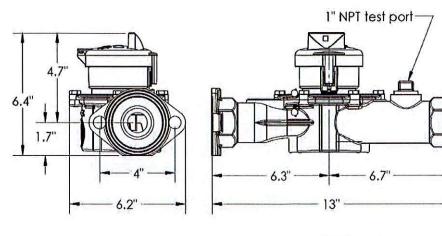
Wire +Lead seal between meter body and top-plate Tamper-resistant screw

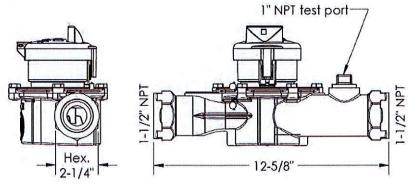
Model Serial Number Date of Manufacture NSF-6 Direction of Flow

Product Datasheet

DIMENSIONS

Spectrum 88DL 1.5-Inch Models



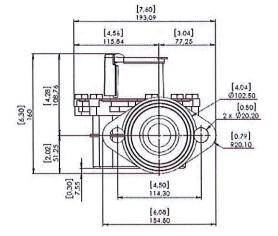


(0.65) 16.50

> [5,71] 145

> > (9,78) 248,50

Spectrum 130D 2-Inch Model



[4,07] 103,50

FLOW & PRESSURE SPECIFICATIONS

Spectrum 88DL / 88DLT- 1.5" Models				
Operating Range (98.5 to 101.5%)	0.5 to 105 gpm	(0.11 to 24 m3/hr)		
Low Flow (95% min)	0.25 gpm	(0.057 m3/hr)		
Max Continuous Flow ¹	88 gpm	(20 m3/hr)		
Max Intermittent Flow ²	105 gpm	(24 m3/hr)		
Pressure Loss at Max Continuous	7.25 psi	(0.5 bar)		
Max Operating Pressure	230 psi	(15.9 bar)		
Max Operating Temperature	120 °F	(48.9 °C)		
Spectrum 130D – 2" Model				
Operating Range (98.5 to 101.5%)	0.75 to 165 gpm	(0.17 to 37.5 m3/hr)		
Low Flow (95% min)	0.25 gpm	(0.057 m3/hr)		
Max Continuous Flow ¹	130 gpm	(29.5 m3/hr)		
Max Intermittent Flow ²	165 gpm	(37.5 m3/hr)		
Pressure Loss at Max Continuous	7.25 psi	(0.5 bar)		
Max Operating Pressure	230 psi	(15.9 kPa)		
Max Operating Temperature	120 °F	(48.9 °C)		

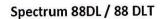
Notes

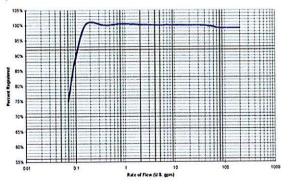
1 Max Continuous defined by AWWA as flow rate which can be maintained 24 hrs/day x 7 days/week

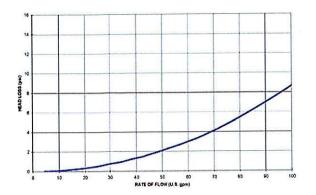
2 Max Intermittent defined as flow rate which can be maintained 1 hr/day average

FLOW ACCURACY

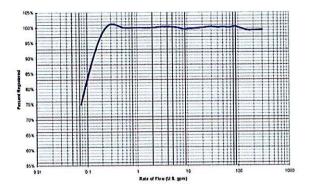
PRESSURE DROP

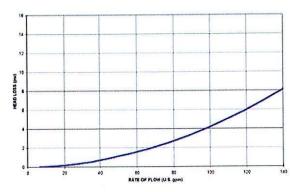






Spectrum 130D





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Smart Water Meters & Systems

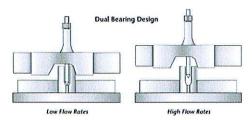
APPLICATIONS

The Spectrum Single-Jet Meter is the widest ranged, single-measuring element meter available to U.S. utilities. The operation of the single jet element allows the meter to be applied in the vast majority of potable cold water, reclaim water and well applications. Coupled with the advanced innov8 registers, the Spectrum single-jets are the meter of choice for your revenue assurance and water loss programs.

The large Spectrum meters come in a selection of configurations for 3-inch, 4-inch and 6-inch applications. The meter has a very wide range so there is no compromise at either low or high flows. All Spectrum Model-D meters are top-loading, chamber designs which allow for field maintenance and repairs.

OPERATIONS

Incoming water rotates a suspended impeller that is magnetically linked to the register. A low friction tungsten carbide bearing supports the impeller at low flow rates while a tungsten carbide thrust bearing provides the support at high flow rates. This unique "dual bearing" design provides unparalleled accuracy and durability at both high and low flows.



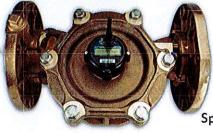
To maintain accuracy, the meter must be installed horizontally (±10°) in the direction of water flow. Each of the meters come with an integral test port on the outlet flange. Although regular maintenance is not required, the Spectrum Model D meters have a top-loading measurement chamber for simple access without removing the meter from service. The chamber is bolted to the meter body and secured with a tamper seal.

All Spectrum Model D meters utilize innov8 registers. These sealed electronic registers provide a high resolution interface to the meter and have multiple cellular, AMR, AMI and SCADA outputs. All registers are attached with a robust tamper-resistant housing.

Large Commercial Spectrum Meters



Spectrum 500D



Spectrum 1000D

DESIGN FEATURES

- High accuracy below AWWA standards
- Wide range—1000:1 turndown
- Superior low flow registration
- Compact and light
- Low pressure drop
- No regular maintenance
- Excellent performance in adverse water conditions
- Unaffected by sand or small debris in line
- No straight pipe requirements upstream or downstream
- No strainer requirement
- 5-year flange-to-flange warranty
- 20-year warranty on meter body
- Compatible with all innov8 registers and associated AMR/AMI capabilities.

MATERIALS

All Spectrum Model-D meters are designed and manufactured to meet or exceed AWWA C712 standard design and performance specifications. All Models are maintained with NSF-61G lead-free certifications.

STANDARDS

AWWA C712 - Single-Jet Meters NSF-61G – Drinking Water System Components Health Effects

Metron-Farnier, LLC 5665 Airport Blvd Boulder, CO 80301 U.S.A.

MECHANICAL SPECIFICATIONS

Spectrum 175D Flanges Lay Length Dimensions Weight Z-Plate Strainer* SS Spacer Spools* Test Port

Spectrum 500D

Flanges Lay Length Dimensions Weight Z-Plate Strainer* SS Spacer Spools* Test Port

Spectrum 1000D Flanges

Lay Length Dimensions Weight Z-Plate Strainer^{*} SS Spacer Spools^{*} Test Port 3-inch (65mm) Round 4-bolt 11.8" (300 mm) See drawing 26.70 lbs (11.65 kg) Available (6" LL) Hard-flanged or adjustable Integral 1" NPT threads

3-inch (80mm) Round 4-bolt 13.75" (349 mm) See drawing 41.6lb (18.86 kg) Available (6" LL) Hard-flanged or adjustable Integral 1" NPT threads

4-inch (100mm) Round 8-bolt 17.75" (349 mm) See drawing 78lb (35.4 kg) Available (7.5" LL) Hard-flanged or adjustable Integral 1" NPT threads <u>4-inch (100 mm)</u> Round 8-bolt 13.75" (349 mm) See drawing 48.45lb (21.97 kg) Available (7.5" LL) Hard-flanged or adjustable Integral 1" NPT threads

6<u>-inch (150 mm)</u> Round 8-bolt 17.75" (349 mm) See drawing 90lb (40.4 kg) Available (9" LL) Hard-flanged or adjustable Integral 1" NPT threads

* Contact Metron for information on stainless steel spools and brass strainers

MATERIALS

Body & Top-plate: Impeller: Impeller Bearings: Impeller Shaft: Register Housing:

TAMPER FEATURES

Meter Body Register

MARKINGS

Engraved on Meter Body:

ASTM C875 - Lead Free Bronze Polypropylene Tungsten Carbide AISI 303, Tungsten Carbide tip Thermoplastic

Wire +Lead seal between meter body and top-plate Tamper-resistant screw

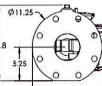
Model Serial Number Date of Manufacture NSF-61G Direction of Flow

Large Commercial Spectrum Meters

Product Datasheet

DIMENSIONS ther gori Spectrum 175D 3-Inch Model 3" flanges 11.8" length 1" NPT test port weight: 32 lbs I" NPT test port Ø7.5 Spectrum 500D 3.375 3-Inch Model .63 3" flanges 13.75" length 1" NPT test port weight: 41.1 lbs 13.75 1" NPT test port Ø9.125 Spectrum 500D 4-inch Model 10.1 4.25 .75 4" flanges 13.75" length 1" NPT test port weight: 47.8 lbs 13 75 1" NPT test port 10.3 Spectrum 1000D 4-inch Model .75 17.75 17.75" length 1" NPT test port weight: 77.8 lbs 1" NPT test port Spectrum 1000D

6" flonges 17.75" length 1" NPT test port weight: 88.9 lbs



.89

17.75

Ø9.125

Metron-Farnier 5665 Airport Blvd Boulder, CO 80301 U.S.A.

6-inch Model

FLOW & PRESSURE SPECIFICATIONS

Spectrum 175D – 3" Model				
Operating Range (98.5 to 101.5%)	0.75 to 350 gpm	(0.17 to 79.5 m3/hr)		
Low Flow (95% min)	0.5 gpm	(0.11 m3/hr)		
Max Continuous Flow ²	175 gpm	(39.74 m3/hr)		
Max Intermittent Flow ³	245 gpm	(55.6 m3/hr)		
Peak Test Flow ⁴	350 gpm	(79.49 m3/hr)		
Pressure Loss at Max Continuous	7.25 psi	(0.5 bar)		
Max Operating Pressure	230 psi	(15.9 bar)		
Max Operating Temperature	120 °F	(48.9 °C)		
Spectrum 500D – 3" / 4" Models				
Operating Range (98.5 to 101.5%)	1.5 to 500 gpm	(0.34 to 113.5 m3/hr)		
Low Flow (95% min)	0.75 gpm	(0.17 m3/hr)		
Max Continuous Flow ²	350 gpm	(79.5 m3/hr)		
Max Intermittent Flow ³	500 gpm	(113.5 m3/hr)		
Peak Test Flow ⁴	600 gpm	(136 m3/hr)		
Pressure Loss at Max Continuous	7.25 psi	(0.5 bar)		
Max Operating Pressure	230 psi	(15.9 bar)		
Max Operating Temperature	120 °F	(48.9 °C)		
Spectrum 1000D – 4" / 6" Models				
Operating Range (98.5 to 101.5%)	2.0 to 1000 gpm	(0.45 to 227.12 m3/hr)		
Low Flow (95% min)	1.0 gpm	(0.23 m3/hr)		
Max Continuous Flow ²	600 gpm	(136 m3/hr)		
	(175A).			

LOW HOW (3570 mm)	T'O Shu	(0.25 115/11)		
Max Continuous Flow ²	600 gpm	(136 m3/hr)		
Max Intermittent Flow ³	1000 gpm	(227.125 m3/hr)		
Peak Test Flow ⁴	1100 gpm	(249.83 m3/hr)		
Pressure Loss at Max Continuous	7.25 psi	(0.5 bar)		
Max Operating Pressure	230 psi	(15.9 bar)		
Max Operating Temperature	120 °F	(48.9 °C)		

Notes

1 Max Continuous defined by AWWA as flow rate which can be maintained 24 hrs/day x 7 days/week

2 Max Intermittent defined as flow rate which can be maintained 1 hr/day average

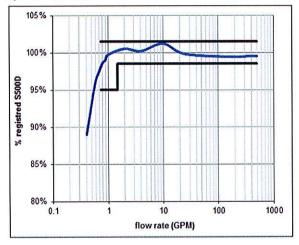
3 Peak Test flow defined as absolute max flow rate which can be maintained for brief periods under stable conditions while maintaining a minimum of 20 psi downstream of the meter.

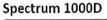
FLOW ACCURACY

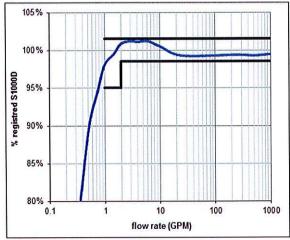
Spectrum 175D

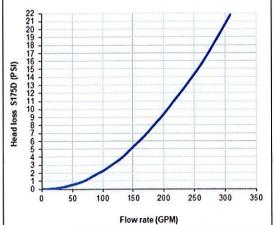
105% 100% 95% 90% 85% 85% 85% 0.1 1 10 100 1000 flow rate (GPM)

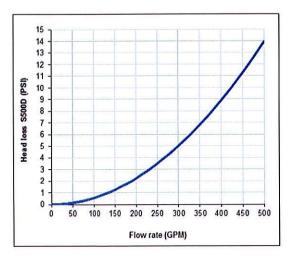
Spectrum 500D

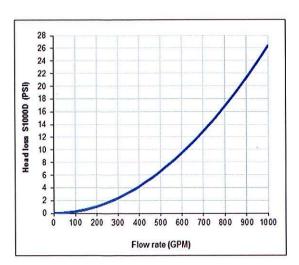












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PRESSURE DROP

MetronFarnier,

Smart Water Meters & Systems

Enduro Meters

APPLICATIONS

The Enduro water meters are single element, wide range industrial meters. The Enduro Model-D meters utilize a top-loading chamber to insert a small diameter Spectrum meter within the flow stream. This unique system allows for unparalleled accuracy and durability at both high and low flows within a compact meter body. The Enduro meters are an ideal solution for most industrial metering applications.

OPERATIONS

Water enters the meter passing over an in-line water conditioner that directs the water through a small diameter Spectrum meter that proportionally measures the total water flow. This incoming water rotates a suspended impeller in the measuring chamber. A low friction pivot bearing supports the impeller at low flow rates while an upper thrust bearing provides the support at high flow rates. The impeller has an attached magnet at its top for the register interface.



All bearing materials are fortified for minimal wear during high-flow stress. The impeller shaft utilizes tungsten tips to minimize wear and ensure long-term accuracy. The Enduro Model-D meters come with integral flanges (either 6" or 8").

To maintain accuracy, the meter must be installed horizontally $(\pm 10^{\circ})$ in the direction of water flow. Enduro meters come with an integral test port on the outlet. Although regular maintenance is not required, the Enduro meters have a top-loading measurement chamber for simple access without removing the meter from service.

All Enduro meters utilize innov8 registers. These sealed electronic registers provide a high resolution interface to the meter and have multiple output options. All registers are attached with a robust tamper-resistant housing.



Enduro 2800D 6" & 8" Enduro Extended Range (ER) 6" & 8"

DESIGN FEATURES

- High accuracy
- Wide range 1000:1 turndown
- Superior low flow registration
- Minimal pressure loss
- Long-term durability
- Low and high flow models to accommodate variety of industrial applications
- No regular maintenance
- Small, compact design for simple installations
- Excellent performance in adverse conditions
- Unaffected by sand or small debris in line
- No straight pipe requirements upstream or downstream of meter
- Strainers available for FM Fire Service
- 5-year flange-to-flange warranty

MATERIALS

All Enduro meters are designed and manufactured to meet or exceed AWWA C712 standards design specifications. All Enduro meters meet or exceed AWWA C701 standards Class II turbine meter performance.

All Models are maintained with NSF-61G lead-free certifications.

STANDARDS

AWWA C712 – Single-Jet Meters NSF-61G – Drinking Water System Components Health Effects

Metron-Farnier, LLC 5665 Airport Blvd Boulder, CO 80301 U.S.A.

MECHANICAL SPECIFICATIONS

Enduro 2800

Flanges Lay Length Dimensions Weight Test Port

Enduro 3600 Flanges Lay Length Dimensions Weight Test Port

Strainers

MATERIALS

Body & Top-plate: Impeller: Impeller Bearings: Impeller Shaft: Register Housing:

TAMPER FEATURES Register

MARKINGS

Engraved on Meter Body:

6<u>-inch (150mm)</u> Round 8-bolt 24" (610 mm) See drawing 121 lb (54.88 kg) Integral 2" NPT threads

6<u>-inch (150mm)</u> Round 8-bolt 24" (610 mm) See drawing 121 lb (54.88 kg) Integral 2" NPT threads

Fireflow-rated strainers available Contact Metron for additional information

ASTM C917 - Lead Free Brass Polypropylene Tungsten Carbide AISI 303, Nivaflex tip Thermoplastic

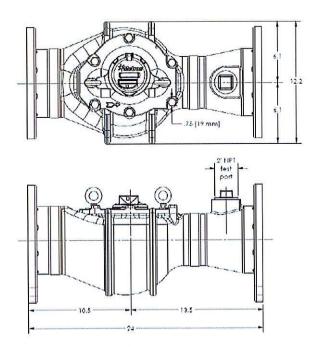
Tamper-resistant screw

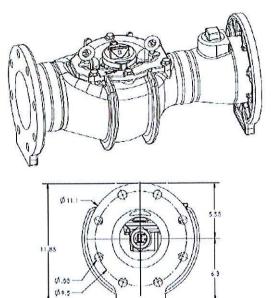
Model Serial Number Date of Manufacture NSF-61G Direction of Flow 8<u>-inch (200 mm)</u> Round 8-bolt 24" (610 mm) See drawing 142 lb (64.4 kg) Integral 2" NPT threads

8<u>-inch (200 mm)</u> Round 8-bolt 24" (610 mm) See drawing 142 lb (64.4 kg) Integral 2" NPT threads

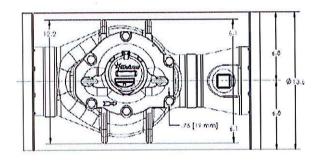
DIMENSIONS

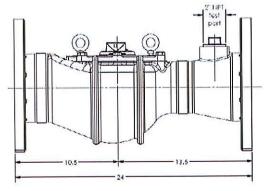
Enduro 2800D / 3600D - 6-inch Model

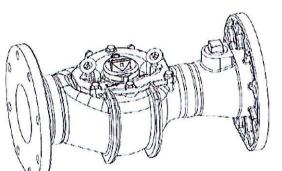


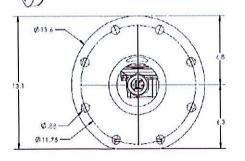


Enduro 2800D / 3600D - 8-inch Model









Metron-Farnier 5665 Airport Blvd Boulder, CO 80301 U.S.A.

FLOW & PRESSURE SPECIFICATIONS

Enduro 2800D– 6" and 8" Model		
Operating Range (98.5 to 101.5%)	6 to 2800 gpm	(1.38 to 636 m3/hr)
Low Flow (95% min)	4.4 gpm	(1 m3/hr)
Max Continuous Flow ²	2400 gpm	(545 m3/hr)
Max Intermittent Flow ³	2800 gpm	(636 m3/hr)
Pressure Loss at Max Continuous	6.40 psi	(0.44 bar)
Max Operating Pressure	230 psi	(15.9 bar)
Max Operating Temperature	120 °F	(48.9 °C)
Enduro 3600D– 6" and 8" Model		
Operating Range (98.5 to 101.5%)	14 to 3600 gpm	(3.2 to 818 m3/hr)

Operating Range (98.5 to 101.5%)	14 to 3600 gpm	(3.2 to 818 m3/hr)		
Low Flow (95% min)	8 gpm	(1.82 m3/hr)		
Max Continuous Flow ²	2800 gpm	(636 m3/hr)		
Max Intermittent Flow ³	3600 gpm	(818 m3/hr)		
Pressure Loss at Max Continuous	11 psi	(0.76 bar)		
Max Operating Pressure	230 psi	(15.9 bar)		
Max Operating Temperature	120 °F	(48.9 °C)		

Notes

1 Starting flow rate for reference only

2 Max Continuous defined by AWWA as flow rate which can be maintained 24 hrs/day x 7 days/week

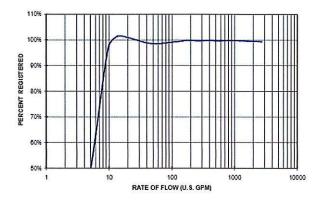
3 Max Intermittent defined as flow rate which can be maintained 1 hr/day average

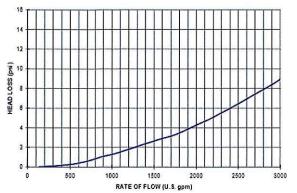
Metron-Farnier 5665 Airport Blvd Boulder, CO 80301 U.S.A.

FLOW ACCURACY

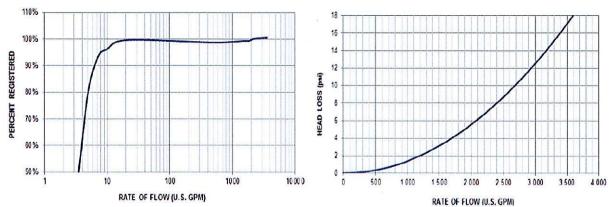
PRESSURE DROP

Enduro 2800D





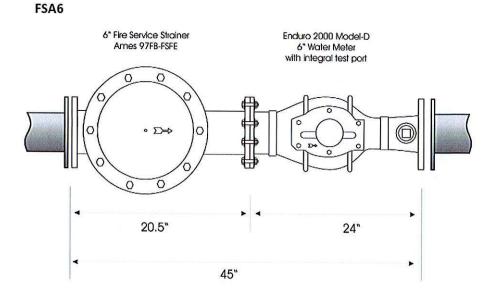
Enduro 3600D



General Specifications

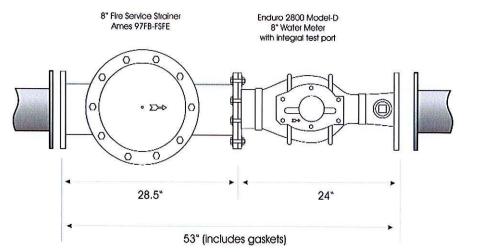
Model-D Enduro Meters

Fire Service Configurations



6-inch Assembly 45-inch LL See Fire Service Brochure for more information

FSA8



8-inch Assembly 53-inch LL See Fire Service Brochure for more information



<u>Appendix II</u>

AMI Information and Requirements (Overview)

The Metron AMA system utilizes the existing cellular (Verizon and/or AT&T) network to backhaul 1minute, time synchronized, consumption data. The ease of deployment makes this an attractive system to everyone from rural water companies to systems serving 100,000+ residents. Metron currently has over 3,000 utilities utilizing the system. There are also no additional infrastructure or network maintenance costs to incur over the life of the system. The utility also won't have to concern themselves with leasing property for infrastructure. It really is as simple as installing the meter today and reading it online the next.

All the 1-minute usage analytics is accessed via Metrons own WaterScope web portal. The WaterScope web portal was nominated as a finalist for the **2022 IoT "Best Utility and Energy Solution"** worldwide. Access to WaterScope is available to the utility, business owners, homeowners, etc. at no additional cost to the utility or the homeowner. There is both a utility phone app and homeowner app. Metron understands that recurring costs can be frustrating to water utilities, so we've taken the approach that the product is an 'All In' bundle. The cost of the meter includes unlimited software access, cellular coverage, and training/support. Metron is able to provide this because we supply the endpoint, head end system, consumer portal, mobile apps, and support under one umbrella.

Consumption data is stored in the Microsoft Azure storage cloud which eliminates any onsite server needs. The storage capacity is very large and can easily accommodate 1 million plus endpoints. The call-in schedule for the endpoints themselves is also randomized as to not 'weigh down' the system in any way.

Endpoints

The Metron system operates in a very different way than other AMI systems. The Metron endpoint (VN) has the communications built into the register. There are several advantages to this design with battery life (20+ years) and data resolution being the main ones. Typical AMI systems have an endpoint that wakes up every hour, or in some cases 15-minutes, to communicate with the meter to obtain updated usage information. That is a very battery intensive operation and is the limiting factor in the resolution of the data. Because the Metron device has eliminated that constant communication we are able to store the usage intervals down to the single minute. This gives the utility true GPM granularity.

The register stores off the 1-minute intervals throughout the course of the day while the communications aspect is essentially in sleep mode. Then, one time per day, the register will wake up and send the equivalent of a text message over the existing cellular network with time-synchronized midnight-to-midnight consumption data. The data is time-synced so the utility can do macro level analytics such as water loss, time of use, peak flow, etc. on a system wide basis. No more apples to oranges comparison.

The VN has the ability to store up to 45 days' worth of 1-minute interval data. Should a daily transmission fail, the missing data will be backfilled upon the next successful connection. This data may also be retrieved locally via an IrDA communication. The VN offers full two-way functionality which allows for over-the-air programming as well as over-the-air firmware updates. (IrDA as well)

The VN can be installed in pits or indoors and there are also two different antenna options. The pit mount antenna secures through a pre-drilled 2 ¼" hole. The paddle antenna (recommended) screws into the underside of the lid. This is a high gain antenna and also eliminates most tampering as there is not an antenna/radio device through the lid. Each option comes in 5', 12', or 20' cable lengths. In the event the antenna cable gets damaged they are very easy and inexpensive to replace.

The VN is fully submersible (IP68) and operates between -0 to -140 degrees Fahrenheit. Storage is between -20 to 140 degrees.

The VN has a full 10-year warranty, as well as an additional 10 years prorated.

Head End System Information and Requirements

The Metron head end system, WaterScope, is a web-based platform that is accessed via an internet connection, username, and password. WaterScope is maintained by a group of internal software engineers which means there are no third-party licensing requirements. Metron gladly takes customer feedback and suggestions to continue to make WaterScope as useful to a water utility as possible. The platform is constantly improving but the improvements occur without any interruption of day-to-day operations and at no cost to the utility. There are also no recurring charges for the first ten years incurred by the utility for access and no limitations to the number of users. Anybody and everybody within the utility can have login access and all users can be logged in simultaneously.

Conditions - Notifications

As the endpoint transmissions are delivered in the middle of the night the 1-minute analytics are analyzed for several different utility defined conditions. The conditions are custom configurable, and the utility has the option to opt in for auto generated notifications. Those conditions are:

Leak – A leak flag is triggered if there were 1440 1-minute intervals that had consumption above 0. Metron feels that if the meter can't register 0 gallons for at least 1-minute in a 24-hour period there is no question there is a leak.

Threshold Leak – The Metron residential meter is accurate below 1/50th of a gallon per minute. Due to this, the program detects a lot of trickle leaks. In an effort to not overwhelm utility personnel with leak notifications, we've established this condition so the utility can filter notifications by a true GPM flow. For example, if 0.25 gpm is considered an 'actionable' leak rate from a utility perspective, WaterScope will only notify utility personnel of leaks greater than 0.25 gpm. The threshold can then be lowered or raised as needed.

Intermittent Leak – The intermittent leak is designed to identify leaking toilets, or any other fixture in an home that runs intermittently for extended periods of time. The utility can configure the trigger as to not have irrigation events and/or constant leaks trigger the flag.

High Usage – The high usage flag is a configurable daily consumption value. If usage exceeds the daily value, an alert is generated.

Backflow – The backflow alert will trigger if a configurable amount of water runs in reverse over a specified period of time. It is also a useful flag for meters that were mistakenly installed backwards.

Zero Use – The zero-use condition will trigger if NO water is used over a configurable period of time. This flag is useful for rental/vacant properties at the homeowner level, but for the utility can be used as a revenue protection alarm for the larger size meters. 30 days seems like a long period of time, especially for larger meters. The user can configure this alarm by meter size.

High Meter Flow – This alert will notify the utility if flow rates exceed the high-end capacity of the meter. Can be helpful for right sizing an application.

High/Low Temperature – The Metron VN measures the daily high and low ambient temperature. The sensor is built into the register, so the temperature reflects the meter level as opposed to the temperature at the pit lid level.

Unauthorized Use – The utility can upload a list of meters that have been shut-off for non-payment and WaterScope will alert to cases where the homeowner has turned the water back on.

Unexpected Use – This condition is designed for the homeowner so they may receive alerts if water is used unexpectedly. Use cases would be rental/vacant properties, snowbirds, and vacations.

Watering Event – If the utility intends to implement watering restrictions now or in the future the Watering Event condition can help monitor those restrictions. Restrictions can be mandatory/voluntary, based on time of day, and the days in a week. The Metron VN system is the only one that offer this as the VN is the only device that can identify indoor vs outdoor use based on the flow rate.

Emergency Transmit – The emergency transmit feature is meant to catch real time leaks. The condition is configurable by meter, and triggers if a configurable amount of flow occurs over a configurable amount of time. In that event the VN will wake up off schedule and send an emergency text to the homeowner.

NOTE – Some insurance companies are willing to provide a rebate to the homeowner if they opt in for the emergency leak option. This only occurs because of the 1-minute data intervals Metron provides and the real time call in.

Billing Integration & Reports

The WaterScope program is very flexible with regard to integrating with utility billing vendors. Typically, the integration occurs without the utility having to make any changes. There are also no resolution or multiplier requirements that need to be sent to the WaterScope program.

The most common integration method is a file transfer (text or csv). This file is used to populate the WaterScope site with pertinent information such as the Account Number, Customer Name, and Customer Address. Below is a screenshot of the file transfer screen within WaterScope.

the optime for post 1011 cards 10. C 🔘
Export

WaterScope supports API integrations as well as FTP and VPN file transfers. webapi.waterscope.us/Help

Metron has integrated WaterScope and MUNIS a number of times in the past using a variety of different file types.

WaterScope offers a number of integrated reports. There are no third-party requirements to generate the reports, and the user may export unlimited numbers of them. The following outlines currently available reports:

Billing Usage – This report returns a consumption value between a configurable date range.

Read Report – Provides the current read on selected meters. The user has the option to view the full LCD read, or the scaled billing read.

Consumption by Meter Size – Returns a report for aggregated consumption by meter size for the selected range of meters.

Comparative Report – Returns comparative usage for a single meter, group of meters, or all meters for a configurable number of years.

Single Meter Consumption – Returns interval data for a single meter over a configurable date range. The intervals can also be configured by the minute, hourly, daily, or monthly. This same report can be generated by the homeowner per consumer user access.

Historic Read Report – Allows the user to view either the full LCD read or scaled billing read for a configurable date range. The report can be generated by a single meter, group of meters, or all meters.

Endpoint Configuration Report – Displays current programming values of the VN for a single meter, group of meters, or all meters.

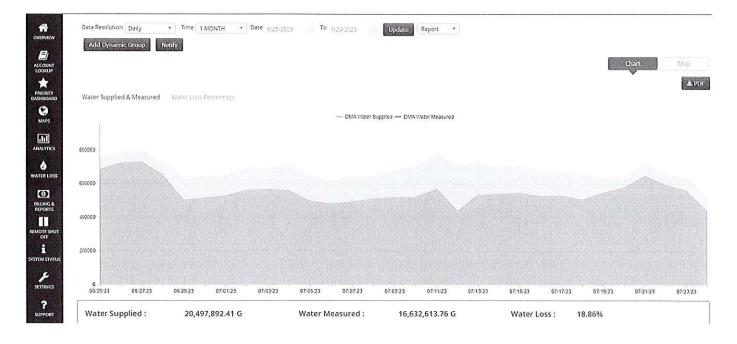
Account Daily Consumption – Returns daily consumption values for a single meter, group of meters, or all meters over a configurable date range.

Consumption Report – Similar to the account daily report, but this one lets the user view consumption in interval data. Intervals can viewed hourly, daily, or monthly for a single meter, group of meters, or all meters for a specified date range.

Macro Level Analytics

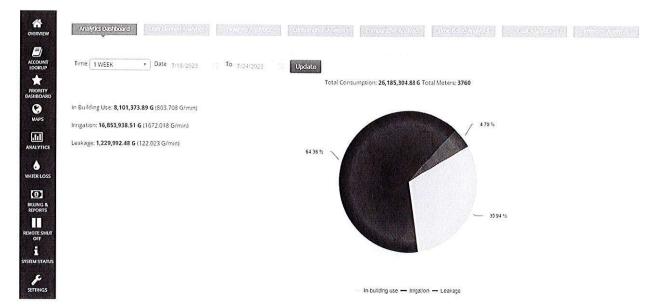
WaterScope offers a number of different macro level analytics. The more prominent ones being District Metering, time of use, flow rate analytics, and comparative analytics.

District Metering – The district metering groups can be configured regionally as well as system wide. The utility can easily identify the supply meter(s) and then subsequently assign the demand meters downstream. Adding/removing meters from a DMA group is also very user friendly. Below is a screenshot of the analytic page:

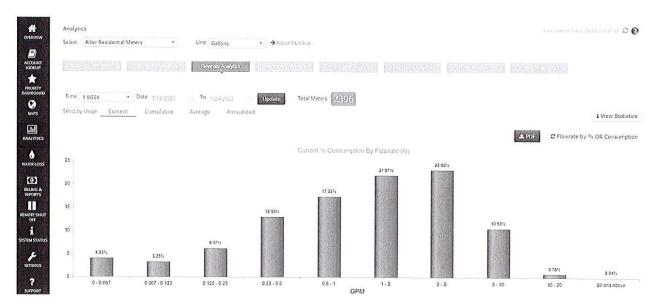


NOTE: WaterScope also has the ability to monitor cooling towers. Should the utility have any downstream cooling towers the building maintenance group could have the ability to monitor for cycles of concentration, faulty valves, etc.

Analytics Dashboard – The analytics dashboard gives the utility a customized view of how the water is being consumed within the utility. The breakdown is indoor vs outdoor vs leak. This is a system wide total. The timeframe can easily be edited to reflect a month or a past weeks usage:



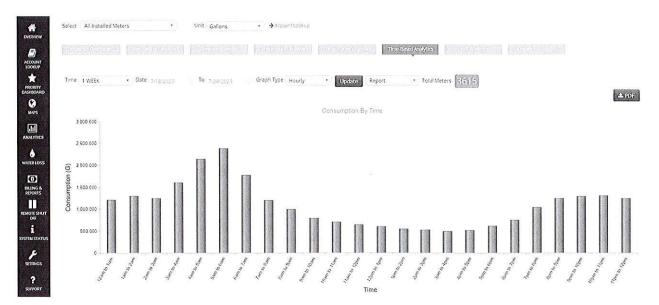
Flowrate Analytics – The flowrate analytics page allows the utility to view total consumption by flow rate, either system wide, by a group of meters (i.e., irrigation meters), by meter size, meter type, etc.



Comparative Analytics – View consumption differences from week to week, month to month, or by a custom date range for system wide consumption or by a utility defined group.



Time Based Analytics – The utility can utilize time-based analytics to see at what times per day the majority of water is being used. This could be especially useful during summer months to ensure that water supplied is keeping up with demand during irrigation.



Micro Level Analytics (The following are also available to the homeowner at the utility discretion)

Aside from the different flag conditions mentioned prior, there are a number of consumption based analytical options for the single meter. The Account Lookup screen is the utility bridge to each individual meter. On the account lookup screen, the utility can view the Account Number, Name, Address, Size, 24-Hour consumption, minimum leak rate, maximum leak rate, and low temperature. The user has the option to configure this screen to only display columns of importance to that user.

Users can easily filter by condition, size, type, group, etc. It is also very easy to lookup a particular meter via the Search option. Users can also view single meter configuration, signal strength values, current read, as well as enter notes for specific accounts. Notes are accessible to all users within the utility.

•	• 🍈 2 3	4 5 🜔	H) 50 ¥	items per page										1 - 50 of 3760 items
¢	Id	Consumer Name	Address	VN ID	Size (")	Billing Read		24Hr	Min Flow Rate (GPM)	Max Flow Rate (GPM)	Min Temp. (°F)	Read Date	Conditions	
3	365-3112.03	No. 1 March 1		3149299	R	6118	III	3386.99	15.47	18.14	69	07-25-2023	87 8 ×	BOFO
7	622-1302.40			3149261	4	8144	III	3745.42	11.97	20.02	69	07-25-2023	0 🖾 📑	B @ 1 0
r	676-6190.04			3243962	R	307		1986.75	8.62	32.12	71	07-25-2023	025122	B @ 1 0
3	521-1004.17			3219546	R	209		1571.6	6.87	22.54	71	07-25-2023	0012	23 @ j ^c ()
7	591-0540.21			3243778	R	2183		749.66	3.77	5.57	82	07-25-2023	OE S	8 @ / ()
7	638-1246.02	The second second		3149800	2	6935		2005.58	3.45	50.52	68	07-25-2023	0 🖾 📑 🔛	@ @ , ^c]
3	676-0850.40			3194022	R	784		878.39	2.92	16.06	73	07-25-2023	00 - 1	B @ , C 0
3	531-1428.17	P.S. Martin T. M.		3217925	R	398		634.31	2.85	15.86	71	07-25-2023	00 32	B @ , C ()
3	638-1264.01			3149776	2	6968	I	1603.49	2.55	22.64	69	07-25-2023	013 -	80 @ j ()
7	638-1202.02			1135677	2	7821		2999.05	2.35	89.1	73	07-25-2023	08 - 7 🗄	8B @ , C ()
3	351-0346.56			3237991	3	4961		3848 5	2.25	93.62	71	07-25-2023	08 5	B @ / ()
3	660-0600.01			3149274	R	2120		787.1	2.08	10.61	69	07-25-2023	08.38*	BOKO

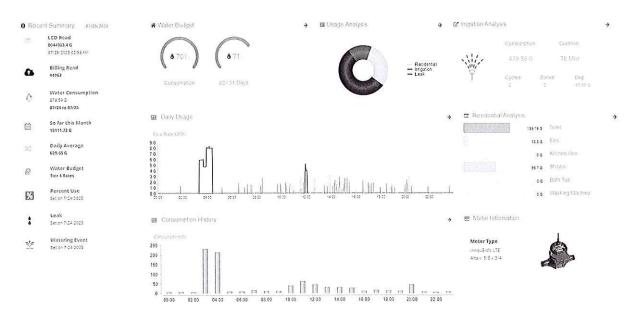
To access the consumption details for an individual meter, click the dashboard icon.

There are a number of different single meter analytics pages available to both the utility and the end user. The utility can ultimately determine what access and what analytical screens are made available to the end users by a simple configuration:

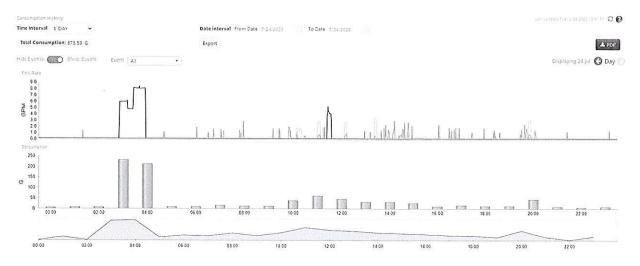
Consumer User	Menu Name	Action
Shere C. C.R. Marine - Andrewski Arrender (* 1997) 1997 - Santa Sa	Consumer Dashboard	
Utility Admin/Owner	Consumption History	
Group (BillingProfile/Utility/Commercial)	Usage Analysis	
Water Budget Consumer Group Flowrate Analysi:	Water Budget	
	Flowrate Analysis	
Utility User	Environmental	
Utility User 1	Notifications	
	Watering	
Utility Tech	Consumption Comparison	
	Settings	

Apply

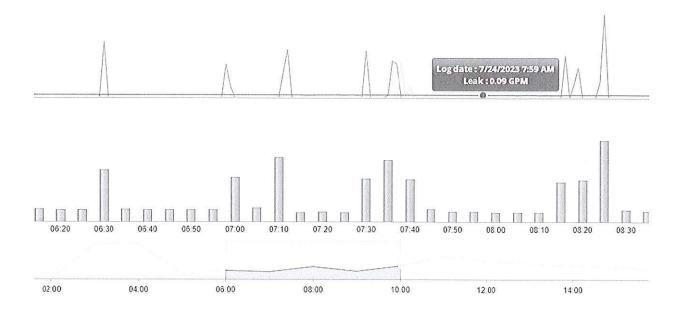
Consumer Dashboard – The consumer dashboard gives a quick summary of things like the current billing read, the past 24 hours consumption, month to date consumption, daily average, as well as a graphical representation of the past 24 hours consumption.



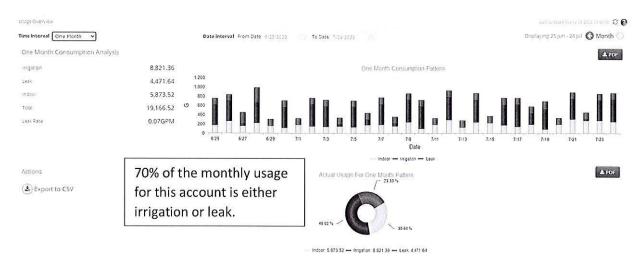
Consumption History – The consumption history allows the user to view the past day, week, month, year, or a custom time period (i.e., start-stop actual billing dates). The WaterScope program analyzes the data in 1-minute intervals and based on the flow rate and duration of time, designates the usage for things such as irrigation, toilet flushes, sink use, etc.



This page is very useful to the utility and end user to view leaks. In the example below the red line outlines a leak running at 0.09 gpm.



Usage Overview – The usage overview page presents the different types of consumption (indoor, outdoor, leak) so both the utility and end user can see how much water is being used in the different categories. When an end user can quantify how much water is potentially being wasted on a leak, or potential over-irrigating, it helps them understand the bill and adjust as necessary.



Water Budget – The water budget feature allows the end user to track monthly usage compared to a goal they have set themselves, or that has been set by the utility. That monthly usage goal can reflect billing tiers, average use within the utility, or seasonal expectations. The tiers within the budget are ultimately controlled by the utility. The screen displays total use per day, indoor vs outdoor, as well as a trend graph for month to date. The data is displayed statistically and graphically. Statistically:

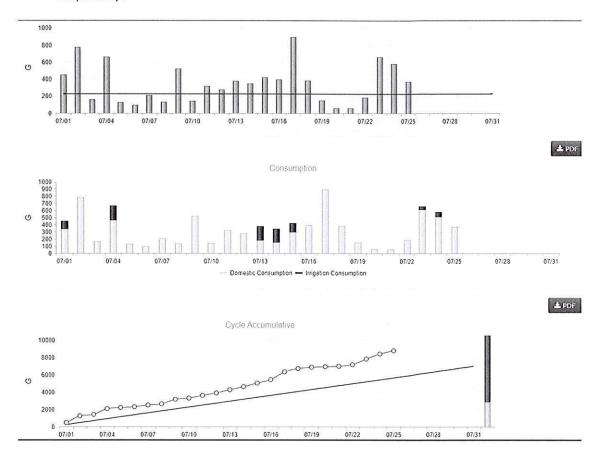
Daily Budget	225.81 G
Cycle Daily Average	351.77 G
Last 24 Hr	375.14 G
Cycle Budget	7000 G

You are 25 days into this cycle which is 80.65% into the month

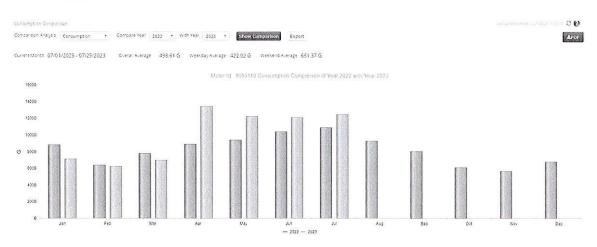
You have used 909.56~G for Irrigation

You have used 8794.21~G so far this cycle which is 125.63% of your water budget

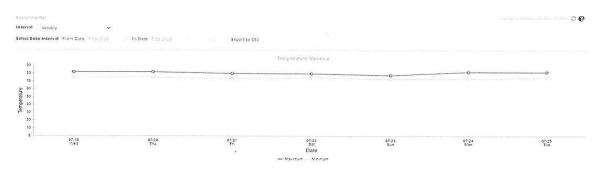
Your Water Budget is Wasteful Graphically:



Consumption Comparison – The user may view comparative consumptions year over year either by a total monthly volume, or average usage per day over a given month for a single meter.



Environmental – The user can view daily maximum ambient temperature, as well as daily minimum ambient temperature. Alerts may be setup for both. Monitoring this is particularly beneficial in both the winter and summer months.



Head End System Information and Requirements (Summary)

The WaterScope web portal seems to not only meet, but exceed the expectations of what the utility expects in a head end system. With numerous different conservation tools both at a micro and macro level, WaterScope will provide the necessary tools to the utility to help manage the system efficiently, effectively, and transparently.

With no additional costs after the purchase of the meter, the utility will not have to budget for ongoing costs for 10 years. Starting year 11, the utility will have the option to prepay another fully loaded 10 year bundle, or pay a yearly, per meter bundle fee.

Consumer Portal Information and Requirements

The WaterScope package includes a fully incorporated consumer portal. The consumers can access their usage information either via the web portal or the mobile app. The mobile app is available for both Apple (iOS) and Android. Both the app and the web portal are maintained by Metron so there will be interruption to either the utility or the homeowner when enhancements and patches are made to the program.

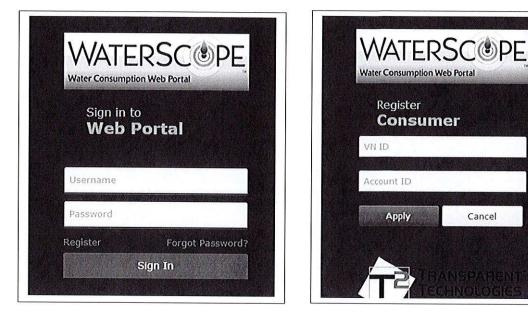
Signup for the consumer portal is very simple. The homeowner simply enters their VN serial number along with the matching account number and as long as the two match WaterScope will allow the signup. The authentication between the VN and account number is to prevent a homeowner from inadvertently signing up for another meter.

Consumer Portal Web Version

The web version of the consumer portal reflects the exact same screens that were discussed on the Micro level of the head end system. This is very beneficial when the utilities customer support staff engages with a homeowner as it allows both sides to view the same exact information. The utility has the ability to customize what screens the consumer has access to. The homeowner then has the option to decide which alerts they would like to receive. The following will cover the consumer web version with signup process and available analytics.

Sign-up

To signup, a consumer user must have the VN ID as well as the account number. The account number will be the utility account number maintained within the billing software. They will begin by clicking 'Register', the next screen will prompt for the VN and Account number:



Assuming the VN and Account Number match, the homeowner will receive a welcome email with instructions on how to complete the signup.

Consumer Configuration

Verification – The consumer can opt in for email, text, or both to receive alerts. They may also add additional emails and phone numbers to the account.

Verification Set Notification Alert Schedule Unexpected Usage Consumption Per Day	
Alert Mode C Email C Text Both None Save	
Primary Email:	Mobile Number:
©Email Koso212@hotmail.com [Z Change Email	Mobile +1 7206704849
Secondary Emails: Enter your Secondary Email Add	Add
Note: Maximum 5 secondary entails can be added to the system to send ortifications	

Set Notifications – Allows the homeowner to choose which flag conditions to receive notifications for. There is a brief explanation to the homeowner on what will trigger each condition.

Verification	Set Notification	Alert Schedule	Unexpected Usage	Consumption	Der Dav
	Set Notification	viter councilies	unexpected usage		Fet Day
		Condition		Format Email	
Vater Budget		e vitalion		Cinai	
🖌 🛗 Cycle S	ummary				
Other Conditions					One-Time Only
Leak (A drip or trickle leak is	evident)			\Box
🛛 🕜 İntermi	ttent Leak (Water is	s being used at a high fl	ow for hours at a time)		
🗌 🐴 High U	sage (A high daily co	onsumption of water is e	evident, Set limit is 1000 Gallo	uns)	
	ected Use (Unexpe	cted water usage)			
20					П
	(Water is being used	continuously above thr	eshold, Set limit is 0 25 GPM)	
🗋 🔆 Wateri	ng Violations				

Alert Schedule – The consumer can define what days alerts will come in. 7 days a week is the default.

Notification Settin	gs					
Verification	Set Notification	Alert Schedule	Unexpected U	sage Consum	otion Per Day	
🕑 Manage Da	ily Alert Schedule					
Save	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
→ Quick Actions Notifications 		s for all days 🖉 Disa ys in every week	ble notifications for all	days		

1

Unexpected Usage – The consumer can set an unexpected usage date range, or per the days of the week. This is designed to detect unexpected usage for things like rental properties, snowbirds, or when a consumer goes on vacation. It is also beneficial for businesses that may be closed certain days of the week.

Notification Settin	gs			
Verification	Set Notification	Alert Schedule	Unexpected Usage	Consumption Per Day
		Se	ttings	
From Date	9/27/2016	To Date 9/27/201	6	
Monday	r Tuesday Wedn	esday Thursday	Friday Saturday Sund	Jay
Apply				

Consumption Per Day – The consumer can set daily consumption alerts, as well as low temperature alerts. The notification is only sent if daily usage exceeds the consumer defined threshold, or the temperature falls below the consumer defined value.

Notification Settin	gs			
Verification	Set Notification	Alert Schedule	Unexpected Usage	Consumption Per Day
Consumption				
200		G		
Minimum Temper	ature			
28		۴F		
Temperature Notifications				
Consumption Notifications				
Save				

Borrego Water District Board of Directors – Regular Board Meeting January 23, 2024 Agenda Item II.D

January 19, 2024

TO: Board of Directors

FROM: Geoffrey Poole, General Manager

- SUBJECT: Borrego Springs Subbasin Watermaster Board VERBAL D Duncan/K Dice/T Driscoll 1. Update on Board Activities
 - 2. Update on Technical Advisory Committee Activities
 - 3. Borrego Basin AEM Helicopter Survey Update

RECOMMENDED ACTION:

Discuss past and upcoming Watermaster Events and direct Representatives as deemed appropriate

ITEM EXPLANATION:

Watermaster Board and Technical Advisory Committee members will update the Board and public on recent events from the past as well as planned future activities.

FISCAL IMPACT

1. N/A

ATTACHMENTS

1. None

Borrego Water District Board of Directors – Regular Board Meeting January 23, 2024 Agenda Item IV.B

Wastewater Production Report:





BORREGO WATER DISTRICT

December 2023

WASTEWATER OPERATIONS REPORT

There's no know problems with wastewater system at the moment:

Rams Hill Wastewater Treatment Facility serving ID-1, ID-2 and ID-5 Total Cap. 0.25 MGD (milliongallons per day):Average flow:78903 (gallons per day)Peak flow:167000 gpd Tuesday, December 26 2023



BORREGO WATER DISTRICT

RAMS HILL WASTEWATER TREATMENT FACILITY 4861 Borrego Springs Rd, BORREGO SPRINGS, CA 92004 (760) 767-5806 FAX (760) 767-5994

01/10/2024

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD – REGION 7 73-720 FRED WARING DR. SUITE 100 PALM DESERT, CA. 92260

Attn: Adriana Godinez/WRCE

RE: December 2023 Borrego Springs WWTP

Dear Adriana,

Please find attached the December 2023 monthly monitoring reports and Lab results for Borrego springs district WWTP.

We are pleased to inform you that there's no known violations for this month.

If you have any questions please contact ROGELIO MARTINEZ/WT-III. (760)419-2764.

Respectfully,

Hogelie white

Rogelio Martinez/ water plant operator III

CC: Geoff Poole/GM

MONTHLY REPORT: R.H.W.T.F

MONTH: DECEMBER

YEAR: 2023

BORREGO WATER DISTRICT,

RAMS HILL WASTEWATER TREATMENT FACILITY,

4861 BORREGO SPRINGS ROAD,

BORREGO SPRINGS, CA 92004

760-767-5806; phone

760-767-5994; fax

COMMENTS: THERE ARE NO SPILLS TO REPORT FOR DECEMBER 2023; THE FLOW REPORT IS ATTACHED.

Submitted by: <u>ROGELIO MARTINEZ/BWD TO: GEOFF POOLE/BWD;</u>

01/10/2024

DEC 2023	INFLUENT DAILY FLOW	GAL.	TOTAL FLOW GAL.
1	70000 GAL		3186000 GAL
2	69000 GAL		3255000 GAL
3	66000 GAL		3321000 GAL
4	83000 GAL		3404000 GAL
5	78000 GAL		3482000 GAL
6	57000 GAL		3539000 GAL
7	69000 GAL		3608000 GAL
8	63000 GAL		3671000 GAL
9	59000 GAL		3730000 GAL
10	56000 GAL		3786000 GAL
11	47000 GAL		3786000 GAL
12	47000 GAL		3833000 GAL
13	52000 GAL		3946000 GAL
14	58000 GAL		4004000 GAL
15	57000 GAL		4061000 GAL
16	59000 GAL		4120000 GAL
17	60000 GAL		4180000 GAL
18	58000 GAL		4760000 GAL
19	64000 GAL		4305000 GAL
20	65000 GAL		4371000 GAL
21	69000 GAL		4440000 GAL
22	91000 GAL		4531000 GAL
23	73000 GAL		4604000 GAL
24	68000 GAL		4672000 GAL
25	117000 GAL		4789000 GAL
26	167000 GAL		4956000 GAL
27	127000 GAL		5083000 GAL
28	160000 GAL		5243000 GAL
29	138000 GAL		5381000 GAL
30	120000 GAL		5501000 GAL
31	79000 GAL		5734000 GAL

	T.F., BORREGO WATER D	ISTRICT		YEAR,2023	<u>1</u>
December <u>DATE</u> 12/5/2023	LOCATION EFFLUENT	<u>Р.Н.</u> 7.86	<u>D.0</u> 5.67mg/l	<u>Alkalinity</u> 180ppm	<u>Freeboard</u>
12/5/2023	POND	7.66	9.47mg/l	180ppm	3.5ft
12/19/2023	EFFLUENT	7.56	5.52mg/l	180ppm	
12/19/2023	POND	7.47	9.30mg/l	190ppm	3.5ft
Berm Condition:	Good and no Odors arou	nd the p	ond		

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD COLORADO RIVER BAIS REGION

WDID NO.: 7A 37 0125 001 ORDER NO.: R7-2007-0053

MONITORING AND REPORTING BORREGO WATER DISTRICT - RAMS HILL WWTF MONTH: December

YEAR: 2023

REPORTING FREQUENCIES: MONTHLY (Oct-March)

December

TYPE OF SAMPLE:	INFLUENT			PONDS		
CONSTITUENTS:	Flow	BOD	TSS	PH	DO	Freeboard
FREQUENCY:	Daily	Monthly	Monthly	Twice Monthly	Twice Monthly	Twice Monthly
DESCRIPTION:	Measurement	Grab	Grab	Grab	Grab	Measurement
UNITS:	gpd	mg/L	mg/L	mg/L	S.U.	ft
REQUIREMENTS	gpu	mg/L	ing/2			
30-DAY MEAN:						
MAXIMUM:						
MINIMUM:						
DATE OF SAMPLE	December					
THE R. P. LEWIS CO., CO., LANSING MICH. & LANSING MICH.	70000					
1	69000					
2	66000					
3	83000					
4	78000	93	180	7.66	9.47	3.5
5	57000	93	100	1.00		
6	69000					
7	63000					
8	59000					
10	56000					
10	47000					
12	47000					
12	52000					
14	58000					
15	57000					
16	59000					
17	60000					
18	58000					
19	64000			7.47	9.30	3.5
20	65000					
21	69000					
22	91000					
23	73000					
24	68000					
25	117000					
26	167000					
27	127000					
28	160000					
29	138000					
30	120000					
31	79000					
30-DAY MEAN	78903	93	180	7.57	9.39	3.5
MAXIMUM	167000	93	180	7.66	9.47	3.5
MINIMUM	47000	93	180	7.47	9.30	3.5

I declare under the penalty of law that I personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: NW4 Date:

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD COLORADO RIVER BAIS REGION

WDID NO .: 7A 37 0125 001 ORDER NO.: R7-2007-0053

MONITORING AND REPORTING BORREGO WATER DISTRICT - RAMS HILL WWTF MONTH: December

REPORTING FREQUENCY: MONTHLY (Oct - March)

YEAR: 2023

REPORTING FREQUE			December			
TYPE OF SAMPLE:			EFFL	UENT		
CONSTITUENTS:	BOD	TSS	SS	T. Nitrogen	TDS	pН
FREQUENCY	Twice Monthly					
DESCRIPTION:	Grab	Grab	Grab	Grab	Grab	Grab
UNITS:	mg/L	mg/L	ml/L	mg/L	ml/L	mg/L
REQUIREMENTS	ing/L					
30-DAY MEAN:						
MAXIMUM:	30mg/l	30mg/l	0.3ml/l		700mg/l	9.0
MINIMUM:						
DATE OF SAMPLE						
1						
2						
3						
4					F00	7.86
5	5.4	4.0	0.0	10.0	500	00.1
6						
7						
8						
9						
10						
11						
12						
13					-	
14						
15						
16 17						
17						
19	11.0			1.3		7.56
20	11.0	5.0	0.0		500	
20		0.0				
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
30-DAY MEAN	8.2	4.5	0.0	5.7	500	7.71
MAXIMUM	8.2	5.0	0.0	10.0	500	7.86
MINIMUM	8.2	4.0	0.0	1.3	500	7.56

I declare under the penalty of law that I personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: Date:

Borrego Water District Board of Directors – Regular Board Meeting January 23, 2024 Agenda Item IV.C

Finacial Reports:

October 2023 November 2023 December 2023

Borrego Water District Operating Budget Analysis 10/01/2023 to 10/31/2023

	Budgeted FY2024	Actual Oct FY2024	Projected Oct FY2024		Year to Date FY2024	% of Annual Budget TD
INCOME						
RATE REVENUE						
Water Rates Revenues						
Commodity Rates						
Residential	1,592,136	136,647	182,566		568,376	36%
Commercial	777,162	60,237	89,115		227,904	29%
Irrigation	355,047	50,021	40,712		149,575	42%
Total Commodity	2,724,345	246,905	312,397		945,855	35%
Non-Commodity Charges					-	
Base Meter Charges	1,468,598	120,305	122,383		481,359	33%
Meter Install/Repair	35,000	317	2,917		659	2%
New Water Supply Connection Fee	24,880	(18,533)	2,073	mini golf	-	0%
Backflow Testing/Install	5,700	-			-	0%
Bulk Water Sales	6,500	3,406	542		8,834	136%
Total Non-Commodity	1,540,678	105,495	127,915		490,851	32%
Total Water Rate Revenues	4,265,023	352,400	440,312		- 1,436,706	34%
Sewer Rates						
TCS Holder Fees (SA2)	163,973	13,947	13,664		55,788	34%
TCS User Fees (SA2)	130,436	11,649	10,870		46,596	36%
RH Sewer User Fees (ID1)	164,786	13,686	13,732		54,743	33%
Sewer Standby/Capacity Fees	-	-			-	
Sewer User Fees (ID5)	186,528	15,493	15,544		61,974	33%
Total Sewer Rates	645,723	54,775	53,810		219,101	34%
Availability Charges Collected thru Tax Roll						
ID1 - Water/Sewer/Flood Standby	105,000	-	2,554		112	0%
ID3/ID4 - Water Standby	117,000	936	2,846		1,959	2%
Pest Control Standby	17,150	97	417		202	. 1%
Total Availability (Tax Roll)	239,150	1,032	5,816		2,274	1%
TOTAL RATE REVENUE	5,149,896	408,208	499,938		1,658,081	32%
OTHER INCOME						
Penalties & Fees	50,000	8,464	5,000		30,625	61%
BSUSD Well Agreement	35,000	-	-		-	0%
1% Property Assessments	70,000	1,265	1,702		3,141	4%
Interest Income	35,000	19,696	2,917		21,923	63%
WM Meter Reading Income	3,333	-	-		1,689	51%
TOTAL OTHER INCOME	193,333	29,424	9,619		57,769	30%
GROSS INCOME	5,343,229	437,632	509,558		1,715,850	32%



Borrego Water District Operating Budget Analysis 10/01/2023 to 10/31/2023

10/01/2023 to 10/31/2023						
	Budgeted FY2024	Actual Oct FY2024	Projected Oct FY2024		Year to Date FY2024	% of Annual Budget TD
EXPENSES						
OPERATING EXPENSES						
Operations & Maintenance Expense						
R&M Water	272,201	21,396	22,683		79,054	29%
R&M WWTF	130,656	51,777	10,888	pump repair/scada	63,317	48%
Telemetry	5,444	-	454		-	0%
Trash Removal	6,533	1,060	544		2,657	41%
Vehicle Expense	24,219	2,272	2,018		5,832	24%
Fuel & Oil	53,703	3,368	4,475		18,461	34%
Lab/Testing	37,664	2,157	3,139		9,101	24%
Permit Fees	39,741	-	3,312		3,596	9%
Pumping Electricity	500,000	52,673	41,667		188,155	38%
Total Operations & Maintenance Expense	1,070,161	134,703	89,180		370,173	35%
Professional Services						
Accounting (Tax & Debt Filings)	4,682	-			822	18%
Air Quality Study	36,341	-	3,028		-	0%
Payroll Services	3,375	302	281		589	17%
Audit Fees	30,000	6,050	2,500		6,050	20%
IT & Cyber Security	42,120	5,097	3,510		14,544	35%
Financial Consulting	87,104	-	7,259		-	0%
Engineering (Dudek)	50,000	-	4,167		5,645	11%
Legal Services - General	78,491	7,067	6,541		37,190	47%
Legal Services Reimbursible		(1,765)			(10,553)	
Advocacy	65,328	5,000	5,444		20,000	31%
Total Professional Services	397,441	21,751	32,730		74,287	19%
Insurance Expense						
ACWA/JPIA Program Insurance	83,490	39,725	40,990		103,587	124%
ACWA/JPIA Workers Comp	23,437	4,906			4,906	21%
Total Insurance Expense	106,927	44,630	40,990		108,492	101%
Personnel Expense						
Board Meeting Expense	25,042	1,320	2,087		13,932	56%
Salaries & Wages	1,323,529	107,399	110,294		422,419	32%
Contra Account - Salaries & Wages	(60,000)	(3,790)	(5,000)		(19,315)	32%
Contract Labor/Consulting	10,888	-	907		-	0%
Payroll Taxes	36,190	2,012	3,016		7,178	20%
Benefits - Medical	295,171	16,676	24,598		81,157	27%
Benefits - CalPERS	271,422	10,886	16,666		114,516	42%
Trainings & Conferences	19,598	6,626	1,633		9,889	50%
Uniforms	7,622	518	635		2,086	27%
Safety Compliance & Emergency Prep	5,444	378	454	-	1,285	- 24%
Total Personnel Expense	1,934,906	142,023	155,290		633,148	33%

Borrego Water District Operating Budget Analysis 10/01/2023 to 10/31/2023

OPERATING EXPENSES (Con't)	Budgeted FY2024	Actual Oct FY2024	Projected Oct FY2024		Year to Date FY2024	% of Annual Budget TD
Office Expense						
Office Supplies	26,131	2,661	2,178		5,358	21%
Office Equipment	54,440	1,249	4,537		6,117	11%
Postage & Freight	16,332	442	1,361		6,248	38%
Property Tax	3,266	49			49	1%
Telephone Expense	30,000	1,788	2,500		13,480	45%
Dues & Subscriptions (ACWA/AWWA)	25,042	14,090	2,087	ACWA	14,721	59%
Printing & Publication	5,444	59	454		684	13%
Office/Shop utilities	10,000	1,342	833		7,848	78%
Total Office Expense	170,655	21,680	13,949		54,504	32%
TOTAL OPERATING EXPENSES	3,680,090	364,787	1,206,078		1,240,604	34%
Debt Expense						
BBVA Bank Note 2018A/B - Principal	341,189	-	341,189		341,189	100%
BBVA Bank Note 2018A/B - Interest	49,821	-	24,911		28,049	56%
2021 Bond Cap One - Principal	427,960	437,070	427,960		437,070	102%
2021 Bond Cap One - Interest	159,759	77,537	79,880		77,537	49%
Total Debt Expense	978,729	514,607	873,939		883,845	90%
GROUNDWATER MANAGEMENT EXPENSES (see GWM Deta	nil)					
Pumping Fees	100,000	-			-	0%
GWM Expense	76,407	-	6,367		13,635	18%
Legal Expense	100,000	5,675	8,333		14,406	14%
Engineering/TAC Expense (Intera)	135,000	12,861	11,250		44,934	33%
GW Quality Risk Assessment (Intera)	28,430		2,369		20,748	73%
TOTAL GROUNDWATER MGMT EXPENSES	439,837	18,536	28,320		93,722	21%
AL EXPENSES	5,098,656	897,930	1,234,398		2,218,171	44%
INCOME	244,573	(460,298)	(724,840)		(502,322)	



Borrego Water District Cash CIP Budget Analysis 10/01/2023 to 10/31/2023

	Budgeted FY2024	Actual Oct FY2024	Year to Date FY2024
PITAL IMPROVEMENT PROJECTS (CIP)			
CASH FUNDED CIP			
Water Projects			
Office Imp. (FY22 Cameras, FY23 Paint, Lighting)	50,000	-	-
ID5-5 Replacement VFD	200,000	-	-
BPA Acquisition	851,125	1,931	768,386
Congressional Appropriations Cash Funded Poriton	850,167		-
Total Water Projects	1,951,292	1,931	768,386
Sewer Projects			
Manhole Refurbishments	49,778	-	-
Palm Canyon Sewer Line Inspection	150,000	-	82,018
Total Sewer Projects	199,778	-	82,018
Short Lived Asset Replacements			
Backup Generator Office & Shop	100,000	-	-
Well ID1-8 Rehab		120,387	120,387
ID4-18 Inspection	10,000	-	-
Reservoir Cleaning/Video Inspection	37,000	-	-
Clarifier Rehab	50,000	-	-
2017 GMC Replacement Transmission		6,080	6,080
Total Short Lived Assets	197,000	126,467	126,467
CASH FUNDED CIP TOTAL	2,348,070	128,398	976,871
2021 Bond Funded CIP			
Bond Funded Water Projects			
ID5-15 Well Completion(Project Total = \$2,052,493)		954	
ID4-10 Inspection/Repairs		45,713	
Pipeline Replacements			
BOND FUNDED CIP TOTAL	-	46,667	-



Borrego Water District Grant/Bond Funded CIP Budget Analysis 10/01/2023 to 10/31/2023

	Budgeted FY2024	Actual Oct FY2024	Year to Date FY2024
RANT FUNDED CIP			
Water Projects- DWR Grant Net \$2,048362 - Receivable @ (09.30.23 = \$1,725,7	782.2	
Twin Tanks	32,835	173,993	233,180
Wilcox Diesel Motor	83,333	111,065	117,407
Indian Head Reservoir Replacement	450,000	185,637	244,154
Rams Hill Tank #2	450,000	164,456	177,238
Total Water Projects - Water Reservoirs Grant	1,016,168	635,152	771,979
Prop 68 Grant - Receivable @ 09.30.23 = \$326,796			
AMI	455,000	6,736	10,131
WWTP Monitoring Wells	60,000	2,450	10,101
Admin/Acquisiton Costs(Total since 2021 = \$121,268)	100,000	3,418	6,219
- Total Prop 68 Grant Projects	615,000	12,605	26,451
2023 Appropriations Bill			
BSR Pipeline	912,406	-	-
Sungold Pipeline	2,488,260		
2023 Appropriations Bill Total	3,400,666	-	
OTAL GRANT FUNDED CIP	5,031,834	647,757	798,431

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Borrego Water District Cash Flow Analysis 10/01/2023 to 10/31/2023

		Actual Oct I	Y2023	
Cash and Reserves at Beginning of Period				\$ 4,517,024
Cash Flows from Operating Activities				
Income Provided by Operating Activities		43,420		
Increase in Accounts Receivable		(59,102)		
Increase in Accounts Payable		119,959		
Increase in Inventory		1,474		
Net Cash Provided by Operating Activities		\$	205,752	
Cash Flows from Groundwater Management Activities				
Net Cash Paid for Groundwater Management Activities		\$	(18,536)	
Cash Flows from Non-Operating Activities				
Other Income Received		29,424		
Debt Service Disbursement		(514,607)		
Net Cash Provided by Other Income		\$	(485,183)	
Cash Flows from Capital Improvement Activities				
All CIP/BPA Purchase Activities (Cash + Grant)		(776,154)		
Net Cash Paid for Capital Improvements		\$	(776,154)	
Net Change in Cash		\$	(1,074,121)	
Cash and Reserves at End of Period				\$ 3,442,903
Restricted Reserves at End of Period		\$ 978,729		
Unrestricted Reserves at End of Period		\$ 2,464,174		
Water Reserves Portion	\$995,428			
Sewer Reserves Portion	\$217,677			
Non-218 Reserves Portion	\$651,069			
Fiscal Year Reserves Target				\$ 7,078,411
Fiscal Year Reserves Surplus/Shortfall to Date				\$ (3,635,508)
2021 Bond Funds Balance at Beginning of Period				\$ 58,231
Net Change in Bond Funds				
Net change in bond Funds		\$	-	

OCTOBER 2023



40835	1109	ABILITY ANSWERING/PAGING SER	10/11/2023	253.92
40836	1092	ACWA	10/11/2023	13,690.00
40863	3035	ACWA / JPIA Finance Dept.	10/26/2023	4,905.53
40885	3035	ACWA / JPIA Finance Dept.	11/08/2023	41,676.00
40866	1266	AFLAC	11/01/2023	1,370.32
40901	1034	AGGREGATE PRODUCTS INC.	11/20/2023	745.50
40837		ALAN ASCHE	10/11/2023	
40886	1001	AMERICAN LINEN INC.	11/08/2023	517.96
40887	61	AT&T MOBILITY	11/08/2023	908.08
40867	9529	AT&T-CALNET 3	11/01/2023	625.71
40868	83	AUTOMATED WATER TREATMENT	11/01/2023	15,057.30
40888	9255	BABCOCK LABORATORIES	11/08/2023	2,057.32
40902		BEST BEST & KRIEGER ATTORNEYS AT LAW	11/20/2023	20,918.40
40889 40903		BORREGO AUTO PARTS & SUPPLY CO BORREGO SPRINGS HARDWARE	11/08/2023	251.54 533.98
40903		BORREGO SPRINGS HARDWARE BORREGO SPRINGS WATERMASTER, INTERIM	11/20/2023 11/08/2023	
40890		BRAX COMPANY, INC.	11/08/2023	22,608.29
5012		BRAX COMPANY, INC.	11/20/2023	45,713.00
40904		BRAX COMPANY, INC.	11/20/2023	121,104.12
40856		BUSY BEES LOCKS & KEYS, INC	10/18/2023	308.64
40806		CAPITAL ONE PUBLIC FUNDING, LLC	09/27/2023	
40847		CARLOS VILCHEZ	10/11/2023	2,850.00
40838	1196	CASH	10/11/2023	715.00
40951	11099		12/13/2023	11,096.52
40842	1222	DEBBIE MORETTI	10/11/2023	140.00
40858	1455	DIANA DEL BONO	10/18/2023	186.02
40915	9640	DUDEK	11/30/2023	2,300.00
40870		Ellen Fitzpatrick	11/01/2023	170.00
40839	1094	EMPIRE SOUTHWEST, LLC	10/11/2023	
40892	1136	HOME DEPOT CREDIT SERVICES	11/08/2023	1,145.43
40916	11137	INTERA INCORPORATED	11/30/2023	9,480.00
40840	11161	ISSAC FREDERICKS	10/11/2023	2,850.00
40871	11161	ISSAC FREDERICKS	11/01/2023	3,900.00
40857	11111	JESSICA CLABAUGH	10/18/2023	148.03
40862	10871		10/23/2023	6,079.87
40873	9385	JOHNSON CONTROLS SECURITY SOLUTIONS	11/01/2023	366.91
40855	11163		10/18/2023	,
40869	11166		11/01/2023	18,533.00
40874	9378	LANDMARK CONSULTANTS, INC.	11/01/2023	1,953.00
		LANDMARK CONSULTANTS, INC.	11/20/2023	1,563.00
40880			11/01/2023	208.72
40875		LEAF & COLE LLP	11/01/2023	6,050.00
40893 40805	1090	LUPE'S GARDENING MAINTENANCE INC. MEDICAL ACWA-JPIA	11/08/2023 09/27/2023	585.00
40805	1489	NORTH COUNTY LAWNMOWER	11/08/2023	17,909.82 300.80
40894	1409		11/01/2023	82.75
40859	1208	PACIFIC PIPELINE SUPPLY INC	10/18/2023	1,657.70
40877	1208	PACIFIC PIPELINE SUPPLY INC	11/01/2023	2,043.14
40843		PARKHOUSE TIRE, INC	10/11/2023	901.58
40878		QUADIENT LEASING USA INC	11/01/2023	442.04
40861		RAMIRO LOPEZ	10/19/2023	1,203.00
40879	9633	RAMONA DISPOSAL SERVICE	11/01/2023	5,041.84
40844		RAMS HILL COMMUNITY ASSN	10/11/2023	3,542.38
40872		REX HARVEY	11/01/2023	350.00
40864	3007	SAN DIEGO COUNTY TREASURER	10/26/2023	48.92
40881	1065	SAN DIEGO GAS & ELECTRIC	11/01/2023	54,014.77
40845	11067	SC FUELS	10/11/2023	1,562.45
40882	11067	SC FUELS	11/01/2023	1,805.68
40883	9046	STATE WATER RESOURCE CONTROL BOARD OPERATOR CERT	11/01/2023	50.00
40846		SUPERIOR READY MIX	10/11/2023	786.19
40952	10877	SUPERIOR TANK COMPANY INC.	12/13/2023	631,710.08
40895	9106	T.S. INDUSTRIAL SUPPLY	11/08/2023	235.43
40896	9581	TRAVIS PARKER	11/08/2023	1,988.41

40860	3000	U.S.BANK CORPORATE PAYMENT SYS	10/18/2023	3,710.42
40897	3000	U.S.BANK CORPORATE PAYMENT SYS	11/08/2023	14,224.33
40884	1023	UNDERGROUND SERVICE ALERT	11/01/2023	17.00
40898	9439	USABLUEBOOK	11/08/2023	3,114.89
40906	9439	USABLUEBOOK	11/20/2023	277.60
40899	92	XEROX FINANCIAL SERVICES	11/08/2023	365.28
40900	11050	ZITO MEDIA	11/08/2023	276.82
		Report Total (70 checks):		1,631,651.70

Borrego Water District Operating Budget Analysis 11/01/2023 to 11/30/2023

	Budgeted FY2024	Actual Nov FY2024	Projected Nov FY2024	Year to Date FY2024	% of Annual Budget TD
INCOME					
RATE REVENUE					
Water Rates Revenues					
Commodity Rates					
Residential	1,592,136	139,402	152,623	707,778	44%
Commercial	777,162	56,315	74,499	284,218	37%
Irrigation	355,047	42,330	34,035	191,905	54%
Total Commodity	2,724,345	238,046	261,163	1,183,901	43%
Non-Commodity Charges				-	
Base Meter Charges	1,468,598	120,292	111,005	601,651	41%
Meter Install/Repair	35,000	317	2,917	976	3%
New Water Supply Connection Fee	24,880	-	2,073	-	0%
Backflow Testing/Install	5,700	-		-	0%
Bulk Water Sales	6,500	1,070	542	9,903	152%
Total Non-Commodity	1,540,678	121,679	116,537	612,530	40%
Total Water Rate Revenues	4,265,023	359,725	377,700	- 1,796,431	42%
Sewer Rates					
TCS Holder Fees (SA2)	163,973	13,959	13,664	69,748	43%
TCS User Fees (SA2)	130,436	11,665	10,870	58,261	45%
RH Sewer User Fees (ID1)	164,786	13,735	13,732	68,478	42%
Sewer Standby/Capacity Fees	-	-		-	
Sewer User Fees (ID5)	186,528	15,495	15,544	77,469	42%
Total Sewer Rates	645,723	54,854	53,810	273,955	42%
Availability Charges Collected thru Tax Roll			0		
ID1 - Water/Sewer/Flood Standby	105,000	1,676	17,017	1,788	2%
ID3/ID4 - Water Standby	117,000	8,554	18,962	10,513	9%
Pest Control Standby	17,150	532	2,779	734	4%
Total Availability (Tax Roll)	239,150	10,762	38,759	13,035	5%
TOTAL RATE REVENUE	5,149,896	425,341	470,269	2,083,422	40%
OTHER INCOME					
Penalties & Fees	50,000	335	-	30,961	62%
BSUSD Well Agreement	35,000	-	-	-	0%
1% Property Assessments	70,000	3,392	11,345	6,533	9%
Interest Income	35,000	15	2,917	21,938	63%
WM Meter Reading Income	3,333		550	1,689	51%
TOTAL OTHER INCOME	193,333	3,743	9,619	61,512	32%
GROSS INCOME	5,343,229	429,084	509,558	2,144,933	40%

Borrego Water District Operating Budget Analysis 11/01/2023 to 11/30/2023

11/01/2023 to 11/30/2023					
	Budgeted FY2024	Actual Nov FY2024	Projected Nov FY2024	Year to Date FY2024	% of Annual Budget TD
EXPENSES					
OPERATING EXPENSES					
Operations & Maintenance Expense					
R&M Water	272,201	10,851	22,683	89,905	33%
R&M WWTF	130,656	3,815	10,888	67,132	51%
Telemetry	5,444	-	454	-	0%
Trash Removal	6,533	633	544	3,289	50%
Vehicle Expense	24,219	2,464	2,018	8,296	34%
Fuel & Oil	53,703	6,306	4,475	24,766	46%
Lab/Testing	37,664	5,318	3,139	14,420	38%
Permit Fees	39,741	-	3,312	3,596	9%
Pumping Electricity	500,000	50,943	41,667	239,098	48%
Total Operations & Maintenance Expense	1,070,161	80,330	89,180	450,503	42%
Professional Services					
Accounting (Tax & Debt Filings)	4,682	-		822	18%
Air Quality Study	36,341	32	3,028	32	0%
Payroll Services	3,375	494	281	1,083	32%
Audit Fees	30,000	1,235	2,500	7,285	24%
IT & Cyber Security	42,120	1,940	3,510	16,484	39%
Financial Consulting	87,104	-	7,259	-	0%
Engineering (Dudek)	50,000	-	4,167	5,645	11%
Legal Services - General	78,491	3,246	6,541	40,436	52%
Legal Services Reimbursible		(242)		(10,795)	
Advocacy	65,328	5,000	5,444	25,000	38%
Total Professional Services	397,441	11,705	32,730	85,993	22%
Insurance Expense					
ACWA/JPIA Program Insurance	83,490	-	40,990	103,587	124%
ACWA/JPIA Workers Comp	23,437			4,906	21%
Total Insurance Expense	106,927	-	40,990	108,492	101%
Personnel Expense					
Board Meeting Expense	25,042	1,650	2,087	15,582	62%
Salaries & Wages	1,323,529	113,059	110,294	535,478	40%
Contra Account - Salaries & Wages	(60,000)	(2,445)	(5,000)	(21,761)	36%
Contract Labor/Consulting	10,888	-	907	-	0%
Payroll Taxes	36,190	2,031	3,016	9,209	25%
Benefits - Medical	295,171	18,598	24,598	99,755	34%
Benefits - CalPERS	271,422	11,583	16,666	126,100	46%
Trainings & Conferences	19,598	1,766	1,633	11,655	59%
Uniforms	7,622	589	635	2,675	35%
Safety Compliance & Emergency Prep	5,444		454	1,285	24%
Total Personnel Expense	1,934,906	146,830	155,290	779,978	40%

Borrego Water District Operating Budget Analysis 11/01/2023 to 11/30/2023

OPERATING EXPENSES (Con't)	Budgeted FY2024	Actual Nov FY2024	Projected Nov FY2024	Year to Date FY2024	% of Annua Budget TD
Office Expense					
Office Supplies	26,131	3,155	2,178	8,513	339
Office Equipment	54,440	961	4,537	7,078	139
Postage & Freight	16,332	2,451	1,361	8,699	539
Property Tax	3,266	-		49	19
Telephone Expense	30,000	1,805	2,500	15,285	519
Dues & Subscriptions (ACWA/AWWA)	25,042	1,115	2,087	15,836	639
Printing & Publication	5,444	240	454	924	179
Office/Shop utilities	10,000	872	833	8,720	879
Total Office Expense	170,655	10,599	13,949	65,104	385
TOTAL OPERATING EXPENSES	3,680,090	249,465	332,139	1,490,070	409
Debt Expense					
BBVA Bank Note 2018A/B - Principal	341,189	-	341,189	341,189	100
BBVA Bank Note 2018A/B - Interest	49,821	-	24,911	28,049	56
2021 Bond Cap One - Principal	427,960	-	427,960	437,070	102
2021 Bond Cap One - Interest	159,759	-	79,880	77,537	49
Total Debt Expense	978,729	-	873,939	883,845	90
GROUNDWATER MANAGEMENT EXPENSES (see GWM Deta	il)				
Pumping Fees	100,000	-		-	0
GWM Expense	76,407	-	6,367	13,635	18
Legal Expense	100,000	2,526	8,333	16,931	17
Engineering/TAC Expense (Intera)	135,000	8,321	11,250	53,255	39
GW Quality Risk Assessment (Intera)	28,430		2,369	20,748	739
TOTAL GROUNDWATER MGMT EXPENSES	439,837	10,846	28,320	104,569	24
LEXPENSES	5,098,656	260,312	1,234,398	2,478,483	49
NCOME	244,573	168,772	(724,840)	(333,550)	



Borrego Water District Cash CIP Budget Analysis 11/01/2023 to 11/30/2023

	Budgeted FY2024	Actual Nov FY2024	Year to Date FY2024
PITAL IMPROVEMENT PROJECTS (CIP)			
CASH FUNDED CIP			
Water Projects			
Office Imp.(FY22 Cameras, FY23 Paint, Lighting)	50,000	-	-
ID5-5 Replacement VFD	200,000	-	-
BPA Acquisition	851,125	279,688	1,048,074
Congressional Appropriations Cash Funded Poriton	850,167		-
Total Water Projects	1,951,292	279,688	1,048,074
Sewer Projects			
Manhole Refurbishments	49,778	-	-
Palm Canyon Sewer Line Inspection	150,000	-	82,018
Total Sewer Projects	199,778	-	82,018
Short Lived Asset Replacements			
Backup Generator Office & Shop	100,000	-	-
Well ID1-8 Rehab		41	41
ID4-18 Inspection	10,000	-	-
Reservoir Cleaning/Video Inspection	37,000	-	-
Clarifier Rehab	50,000	-	-
2017 GMC Replacement Transmission		-	6,080
Total Short Lived Assets	197,000	41	6,121
CASH FUNDED CIP TOTAL	2,348,070	279,729	1,136,213
2021 Bond Funded CIP			
Bond Funded Water Projects			
ID5-15 Well Completion(Project Total = \$2,052,493)		-	
ID4-10 Inspection/Repairs		4,027	51,349
Pipeline Replacements			
BOND FUNDED CIP TOTAL	-	4,027	51,349



Borrego Water District Grant/Bond Funded CIP Budget Analysis 11/01/2023 to 11/30/2023

	Budgeted FY2024	Actual Nov FY2024	Year to Date FY2024
GRANT FUNDED CIP			
Water Projects- DWR Grant Net \$2,048362 - Receivable @ (09.30.23 = \$1,725,	782.2	
Twin Tanks	32,835	46,739	279,919
Wilcox Diesel Motor	83,333	-	117,407
Indian Head Reservoir Replacement	450,000	37,032	281,186
Rams Hill Tank #2	450,000	50,303	227,541
- Total Water Projects - Water Reservoirs Grant	1,016,168	134,073	906,053
Prop 68 Grant - Receivable @ 09.30.23 = \$326,796			
AMI	455,000	159	10,290
WWTP Monitoring Wells	60,000	509	10,609
Admin/Acquisiton Costs(Total since 2021 = \$121,268)	100,000	173	6,392
Total Prop 68 Grant Projects	615,000	841	27,292
2023 Appropriations Bill			
BSR Pipeline	912,406	-	-
Sungold Pipeline	2,488,260		-
2023 Appropriations Bill Total	3,400,666	-	-
TOTAL GRANT FUNDED CIP	5,031,834	134,914	933,345

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Borrego Water District Cash Flow Analysis 11/01/2023 to 11/30/2023

		Actual Nov F	Y2023	
Cash and Reserves at Beginning of Period				\$ 3,501,134
Cash Flows from Operating Activities				
Income Provided by Operating Activities		175,876		
Increase in Accounts Receivable		35,474		
Increase in Accounts Payable		(237,787)		
Increase in Inventory		(5,345)		
Net Cash Provided by Operating Activities		\$	(31,782)	
Cash Flows from Groundwater Management Activities				
Net Cash Paid for Groundwater Management Activities		\$	(10,846)	
Cash Flows from Non-Operating Activities				
Other Income Received		3,743		
Debt Service Disbursement		-		
Net Cash Provided by Other Income		\$	3,743	
Cash Flows from Capital Improvement Activities				
All CIP/BPA Purchase Activities (Cash + Grant)		(414,643)		
Net Cash Paid for Capital Improvements		<u>\$</u>	(414,643)	
Net Change in Cash		\$	(453,528)	
Cash and Reserves at End of Period				\$ 3,047,606
Restricted Reserves at End of Period		\$ 978,729		
Unrestricted Reserves at End of Period		\$ 2,068,877		
Water Reserves Portion	\$647,595			
Sewer Reserves Portion	\$170,245			
Non-218 Reserves Portion	\$651,037			
Fiscal Year Reserves Target				\$ 7,078,411
Fiscal Year Reserves Surplus/Shortfall to Date				\$ (4,030,805)
2021 Bond Funds Balance at Beginning of Period				\$ 58,231
Net Change in Bond Funds		\$	(45,713)	



NOVEMBER 2023

/				
40907	1109	ABILITY ANSWERING/PAGING SER	11/20/2023	249.50
40917	1266	AFLAC	11/30/2023	1,370.32
40925	1001	AMERICAN LINEN INC.	12/13/2023	588.62
40926	61	AT&T MOBILITY	12/13/2023	908.08
40918	9529	AT&T-CALNET 3	11/30/2023	647.73
40927	9255	BABCOCK LABORATORIES	12/13/2023	5,258.40
40929	10884	BEST BEST & KRIEGER ATTORNEYS AT LAW	12/13/2023	11,485.94
40919	9679	BIG J FENCING, INC.	11/30/2023	29,700.00
40930	10900	BORREGO AUTO PARTS & SUPPLY CO	12/13/2023	443.28
40931	11140	BORREGO SPRINGS HARDWARE	12/13/2023	417.01
40932	1037	BORREGO SUN	12/13/2023	240.00
5013	1066	DE ANZA READY MIX	12/13/2023	576.51
40909	1222	DEBBIE MORETTI	11/20/2023	140.00
40909	96	DISH	12/13/2023	175.60
40934	90 11172		12/13/2023	
		ENGINEERING UNLINITED, INC HOME DEPOT CREDIT SERVICES		195.91
40936	1136		12/13/2023	2,953.97
40949	11137		12/13/2023	8,002.50
40920	11021	J & T Tire and Auto	11/30/2023	1,621.21
40908	11139	KENDALL'S CAFE INC	11/20/2023	658.34
40921	11063	LEAF & COLE LLP	11/30/2023	1,235.00
40937	11090	LUPE'S GARDENING MAINTENANCE INC.	12/13/2023	585.00
40933	11081	M & L BUNTEN	12/13/2023	2,875.00
40865	1000	MEDICAL ACWA-JPIA	10/26/2023	20,013.68
40922	93	MRC SMART TECHNOLOGY SOLUTIONS	11/30/2023	563.86
40938	1489	NORTH COUNTY LAWNMOWER	12/13/2023	172.39
40939	11114	OCEANUS BOTTLED WATER, INC	12/13/2023	15.25
40910	1208	PACIFIC PIPELINE SUPPLY INC	11/20/2023	3,757.97
5014	1208	PACIFIC PIPELINE SUPPLY INC	12/13/2023	3,450.72
40940	1208	PACIFIC PIPELINE SUPPLY INC	12/13/2023	4,734.61
40941	11083	QUADIENT FINANCE USA, INC.	12/13/2023	1,999.50
40942	11165	QUADIENT LEASING USA INC	12/13/2023	442.04
40943	9633	RAMONA DISPOSAL SERVICE	12/13/2023	5,041.84
40911	1065	SAN DIEGO GAS & ELECTRIC	11/20/2023	239.43
40923	1065	SAN DIEGO GAS & ELECTRIC	11/30/2023	51,575.47
40912	11067	SC FUELS	11/20/2023	4,535.33
40944	11067	SC FUELS	12/13/2023	1,598.03
40950	10877	SUPERIOR TANK COMPANY INC.		106,854.92
40928	11171	TAMMY BAKER	12/13/2023	489.50
40924	9666	THE REGENTS, UCI IRVINE	11/30/2023	
40945	9581	TRAVIS PARKER	12/13/2023	1,040.09
40946	3000	U.S.BANK CORPORATE PAYMENT SYS	12/13/2023	4,441.10
40940	1023	UNDERGROUND SERVICE ALERT	12/13/2023	22.25
40947	9439	USABLUEBOOK	11/20/2023	641.12
40913	9439 11050		12/13/2023	276.82
40940	11030	ZITO MEDIA	12/13/2023	
		Report Total (44 checks):		282,266.24

Borrego Water District Operating Budget Analysis 12/01/2023 to 12/31/2023

	Budgeted FY2024	Actual Dec FY2024	Projected Dec FY2024	Year to Date FY2024	% of Annual Budget TD
INCOME					
RATE REVENUE					
Water Rates Revenues					
Commodity Rates					
Residential	1,592,136	94,424	98,193	802,202	50%
Commercial	777,162	47,138	47,930	331,357	43%
Irrigation	355,047	25,094	21,897	216,998	61%
Total Commodity	2,724,345	166,656	168,026	1,350,557	50%
Non-Commodity Charges				-	
Base Meter Charges	1,468,598	120,502	111,005	722,153	49%
Meter Install/Repair	35,000	12,718	2,917	13,694	39%
New Water Supply Connection Fee	24,880	-	2,073	-	0%
Backflow Testing/Install	5,700	500		500	9%
Bulk Water Sales	6,500	2,090	542	11,993	185%
Total Non-Commodity	1,540,678	135,810	116,537	748,340	49%
Total Water Rate Revenues	4,265,023	302,467	284,563	2,098,898	49%
Sewer Rates					
TCS Holder Fees (SA2)	163,973	13,947	13,664	83,695	51%
TCS User Fees (SA2)	130,436	11,665	10,870	69,926	54%
RH Sewer User Fees (ID1)	164,786	13,735	13,732	82,213	50%
Sewer Standby/Capacity Fees	-	-		-	
Sewer User Fees (ID5)	186,528	15,498	15,544	92,967	50%
Total Sewer Rates	645,723	54,845	53,810	328,800	51%
Availability Charges Collected thru Tax Roll			0		
ID1 - Water/Sewer/Flood Standby	105,000	7,062	29,146	8,850	8%
ID3/ID4 - Water Standby	117,000	32,854	32,478	43,367	37%
Pest Control Standby	17,150	5,024	4,761	5,758	34%
Total Availability (Tax Roll)	239,150	44,940	66,385	57,975	24%
TOTAL RATE REVENUE	5,149,896	402,252	404,758	2,485,673	48%
OTHER INCOME					
Penalties & Fees	50,000	420	-	31,381	63%
BSUSD Well Agreement	35,000	-	8,750	-	0%
1% Property Assessments	70,000	26,598	19,431	33,131	47%
Interest Income	35,000	16	2,917	21,954	63%
WM Meter Reading Income	3,333		-	1,689	51%
TOTAL OTHER INCOME	193,333	27,034	31,098	88,546	46%
GROSS INCOME	5,343,229	429,286	435,855	2,574,219	48%

Borrego Water District Operating Budget Analysis 12/01/2023 to 12/31/2023

	Budgeted FY2024	Actual Dec FY2024	Projected Dec FY2024	Year to Date FY2024	% of Annual Budget TD
<u>EXPENSES</u>					
OPERATING EXPENSES					
Operations & Maintenance Expense					
R&M Water	272,201	4,547	22,683	94,452	35%
R&M WWTF	130,656	7,100	10,888	74,232	57%
Telemetry	5,444	1,750	454	1,750	32%
Trash Removal	6,533	631	544	3,920	60%
Vehicle Expense	24,219	3,420	2,018	11,716	48%
Fuel & Oil	53,703	3,563	4,475	28,330	53%
Lab/Testing	37,664	2,315	3,139	16,735	44%
Permit Fees	39,741	-	3,312	3,596	9%
Pumping Electricity	500,000	44,211	41,667	283,309	57%
Total Operations & Maintenance Expense	1,070,161	67,537	89,180	518,040	48%
Professional Services					
Accounting (Tax & Debt Filings)	4,682	-		822	18%
Air Quality Study	36,341	-	3,028	32	0%
Payroll Services	3,375	417	281	1,500	44%
Audit Fees	30,000	2,000	2,500	9,285	31%
IT & Cyber Security	42,120	10,695	3,510	27,179	65%
Financial Consulting	87,104	-	7,259	-	0%
Engineering (Dudek)	50,000	-	4,167	5,645	11%
Legal Services - General	78,491	4,118	6,541	44,554	57%
Legal Services Reimbursible		(623)		(11,418)	
Advocacy	65,328	5,000	5,444	30,000	46%
Total Professional Services	397,441	21,607	32,730	107,599	27%
Insurance Expense					
ACWA/JPIA Program Insurance	83,490	-		103,587	124%
ACWA/JPIA Workers Comp	23,437		4,500	4,906	21%
Total Insurance Expense	106,927	-	4,500	108,492	101%
Personnel Expense					
Board Meeting Expense	25,042	825	2,087	16,407	66%
Salaries & Wages	1,323,529	116,894	110,294	652,372	49%
Contra Account - Salaries & Wages	(60,000)	(2,332)	(5,000)	(24,093)	40%
Contract Labor/Consulting	10,888	-	907	-	0%
Payroll Taxes	36,190	2,019	3,016	11,228	31%
Benefits - Medical	295,171	18,598	24,598	118,353	40%
Benefits - CalPERS	271,422	9,116	16,666	135,215	50%
Trainings & Conferences	19,598	1,693	1,633	13,348	68%
Uniforms	7,622	577	635	3,252	43%
Safety Compliance & Emergency Prep	5,444		454	1,285	24%
Total Personnel Expense	1,934,906	147,389	155,290	927,367	48%

Borrego Water District Operating Budget Analysis 12/01/2023 to 12/31/2023

OPERATING EXPENSES (Con't)	Budgeted FY2024	Actual Dec FY2024	Projected Dec FY2024		Year to Date FY2024	% of Annual Budget TD
Office Expense						
Office Supplies	26,131	4,676	2,178		13,189	50%
Office Equipment	54,440	8,007	4,537	SPMR Renewal	15,085	28%
Postage & Freight	16,332	-	1,361		8,699	53%
Property Tax	3,266	-	3,266		49	1%
Telephone Expense	30,000	2,066	2,500		17,351	58%
Dues & Subscriptions (ACWA/AWWA)	25,042	584	2,087		16,419	66%
Printing & Publication	5,444	80	454		1,004	18%
Office/Shop utilities	10,000	624	833		9,344	93%
Total Office Expense	170,655	16,036	17,215		81,140	48%
TOTAL OPERATING EXPENSES	3,680,090	252,569	298,915		1,742,638	47%
Debt Expense						
BBVA Bank Note 2018A/B - Principal	341,189	-			341,189	100%
BBVA Bank Note 2018A/B - Interest	49,821	-			28,049	56%
2021 Bond Cap One - Principal	427,960	-			437,070	102%
2021 Bond Cap One - Interest	159,759	-			77,537	49%
Total Debt Expense	978,729	-	-		883,845	90%
GROUNDWATER MANAGEMENT EXPENSES (see GWM Detai	()					
Pumping Fees	100,000	-			-	0%
GWM Expense	76,407	-	6,367		13,635	18%
Legal Expense	100,000	4,949	8,333		21,880	22%
Engineering/TAC Expense (Intera)	135,000	1,458	11,250		54,713	41%
GW Quality Risk Assessment (Intera)	28,430		2,369		20,748	73%
TOTAL GROUNDWATER MGMT EXPENSES	439,837	6,407	28,320	· -	110,975	25%
AL EXPENSES	5,098,656	258,975	327,235		2,737,459	54%
INCOME	244,573	170,310	108,621		(163,240)	



Borrego Water District Cash CIP Budget Analysis 12/01/2023 to 12/31/2023

	Budgeted FY2024	Actual Dec FY2024	Year to Date FY2024
PITAL IMPROVEMENT PROJECTS (CIP)			
CASH FUNDED CIP			
Water Projects			
Office Imp.(FY22 Cameras, FY23 Paint, Lighting)	50,000	-	-
ID5-5 Replacement VFD	200,000	-	-
BPA Acquisition	851,125	138	1,048,213
Congressional Appropriations Cash Funded Poriton	850,167		-
Total Water Projects	1,951,292	138	1,048,213
Sewer Projects			
Manhole Refurbishments	49,778	-	-
Palm Canyon Sewer Line Inspection	150,000	-	82,018
Total Sewer Projects	199,778	-	82,018
Short Lived Asset Replacements			
Backup Generator Office & Shop	100,000	-	-
Well ID1-8 Rehab		675	675
ID4-18 Inspection	10,000	-	-
Reservoir Cleaning/Video Inspection	37,000	-	-
Clarifier Rehab	50,000	-	-
2017 GMC Replacement Transmission		-	6,080
Total Short Lived Assets	197,000	675	6,754
CASH FUNDED CIP TOTAL	2,348,070	813	1,136,985
2021 Bond Funded CIP			
Bond Funded Water Projects			
ID5-15 Well Completion(Project Total = \$2,052,493)		-	
ID4-10 Inspection/Repairs		181,823	233,172
Pipeline Replacements			
BOND FUNDED CIP TOTAL	-	181,823	233,172



Borrego Water District Grant/Bond Funded CIP Budget Analysis 12/01/2023 to 12/31/2023

	Budgeted FY2024	Actual Dec FY2024	Year to Date FY2024
GRANT FUNDED CIP			
Water Projects- DWR Grant Net \$2,048362 - Receivable @	09.30.23 = \$1,725,	782.2	
Twin Tanks	32,835	-	279,919
Wilcox Diesel Motor	83,333	-	117,407
Indian Head Reservoir Replacement	450,000	92	281,278
Rams Hill Tank #2	450,000	-	227,541
- Total Water Projects - Water Reservoirs Grant	1,016,168	92	906,145
Prop 68 Grant - Receivable @ 09.30.23 = \$326,796			
AMI	455,000	-	10,290
WWTP Monitoring Wells	60,000	-	10,609
Admin/Acquisiton Costs(Total since 2021 = \$121,268)	100,000	242	6,635
Total Prop 68 Grant Projects	615,000	242	27,534
2023 Appropriations Bill			
BSR Pipeline	912,406	-	-
Sungold Pipeline	2,488,260		
2023 Appropriations Bill Total	3,400,666	-	-
TOTAL GRANT FUNDED CIP	5,031,834	334	933,679

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Borrego Water District Cash Flow Analysis 12/01/2023 to 12/31/2023

		Actual Dec F			
Cash and Reserves at Beginning of Period				\$ 3,40	7,606
Cash Flows from Operating Activities					
Income Provided by Operating Activities		149,683			
Decrease in Accounts Receivable		140,928			
Decrease in Accounts Payable		(887,628)			
Decrease in Inventory		2,340			
Net Cash Provided by Operating Activities		\$	(594,677)		
Cash Flows from Groundwater Management Activities					
Net Cash Paid for Groundwater Management Activities		\$	(6,407)		
Cash Flows from Non-Operating Activities					
Other Income Received		27,034			
Debt Service Disbursement		-			
Net Cash Provided by Other Income		\$	27,034		
Cash Flows from Capital Improvement Activities					
All CIP/BPA Purchase Activities (Cash + Grant)		(195,488)			
Net Cash Paid for Capital Improvements		\$	(195,488)		
Net Change in Cash		\$	(769,538)		
Cash and Reserves at End of Period				\$ 2,63	8,068
Restricted Reserves at End of Period		\$ 978,729			
Unrestricted Reserves at End of Period		\$ 1,659,339			
Water Reserves Portion	\$287,202				
Sewer Reserves Portion	\$121,101				
Non-218 Reserves Portion	\$651,037				
Fiscal Year Reserves Target				\$ 7,07	8,411
Fiscal Year Reserves Surplus/Shortfall to Date				\$ (4,44	0,343
2021 Bond Funds Balance at Beginning of Period				\$ 1	2,518
Net Change in Bond Funds		\$	(12,518)		

DECEMBER 2023



2.57.	1962			
40953	1109	ABILITY ANSWERING/PAGING SER	12/13/2023	249.50
40964	1266	AFLAC	12/20/2023	1,370.32
40980	1001	AMERICAN LINEN INC.	01/09/2024	577.05
40981	61	AT&T MOBILITY	01/09/2024	908.08
40982	9529	AT&T-CALNET 3	01/09/2024	
41015	11069	ATEL COMMUNICATIONS	01/18/2024	
41016	9255	BABCOCK LABORATORIES	01/18/2024	•
40983	10884	BEST BEST & KRIEGER ATTORNEYS AT LAW	01/09/2024	,
40984	10900	BORREGO AUTO PARTS & SUPPLY CO	01/09/2024	•
40965	1201	BORREGO LANDFILL	12/20/2023	114.14
40985	31	BORREGO SPRINGS CHAMBER OF COMMERCE	01/09/2024	
40986	11140		01/09/2024	
40954	1037	BORREGO SUN	12/13/2023	
40955	11066	BRAX COMPANY, INC.	12/13/2023	
40987	11066	BRAX COMPANY, INC.	01/09/2024	
40967	1196		12/20/2023	400.00
41017	1135		01/18/2024	
40988 40968	11099	CONTROL SYSTEMS ENGINEERING INC	01/09/2024	
	9054	COUNTY OF SAN DIEGO DEPT ENVIRONMENTAL HEALTH	12/20/2023	1,585.00
40969 40993	1066 1222	DE ANZA READY MIX DEBBIE MORETTI	12/20/2023 01/09/2024	677.55 140.00
40993	1222	DIAMOND MMP, INC	12/20/2023	
40970	96	DISH	01/09/2024	
40900	11116		01/09/2024	
40957		EDDIE LOPEZ	12/13/2023	625.00
40971		ESMERALDA GARCIA	12/20/2023	78.00
40956		FRANK & SON PAVING INC	12/13/2023	
40991	1136	HOME DEPOT CREDIT SERVICES	01/09/2024	
41018		INTERA INCORPORATED	01/18/2024	
40972	11063	LEAF & COLE LLP	12/20/2023	2,000.00
41019	11090	LUPE'S GARDENING MAINTENANCE INC.	01/18/2024	585.00
40958	9771	MANUEL MARIN	12/13/2023	
40992	1216	McCALLS METERS, INC	01/09/2024	
40914	1000	MEDICAL ACWA-JPIA	11/20/2023	
40994	11120	MRSP, LLC	01/09/2024	
40995	11114	OCEANUS BOTTLED WATER, INC	01/09/2024	
5015	1208	PACIFIC PIPELINE SUPPLY INC	12/13/2023	
40959	1208	PACIFIC PIPELINE SUPPLY INC PACIFIC PIPELINE SUPPLY INC	12/13/2023 12/20/2023	716.86
5016	1208	PACIFIC PIPELINE SUPPLY INC	12/20/2023	6,467.53 438.62
40973	1208	PACIFIC PIPELINE SUPPLY INC	01/09/2024	1,578.72
40990	11132	PARKHOUSE TIRE, INC	01/09/2024	1,051.77
40960	11028	POOL & ELECTRICAL PRODUCTS	12/13/2023	420.00
40998	9633	RAMONA DISPOSAL SERVICE	01/09/2024	5,041.84
40974	1065	SAN DIEGO GAS & ELECTRIC	12/20/2023	197.21
40999	1065	SAN DIEGO GAS & ELECTRIC	01/09/2024	44,638.54
40975	11067	SC FUELS	12/20/2023	1,990.72
41000	11067	SC FUELS	01/09/2024	1,572.46
40961	9166	SWRCB	12/13/2023	8,431.00
40962	9581	TRAVIS PARKER	12/13/2023	11,980.20
41001	9581	TRAVIS PARKER	01/09/2024	2,199.64
40963	35	U.S. POSTAL SERVICE	12/13/2023	152.00
41002	3000	U.S.BANK CORPORATE PAYMENT SYS	01/09/2024	4,028.28
41003	1023	UNDERGROUND SERVICE ALERT	01/09/2024	24.00
40976	9439	USABLUEBOOK	12/20/2023	5,895.14
41004 40966	9439 11133	USABLUEBOOK VAL BOWMAN	01/09/2024 12/20/2023	263.86 171.16
40966 40977	92	XEROX FINANCIAL SERVICES	12/20/2023	365.28
41005	32 11050	ZITO MEDIA	01/09/2024	276.82
		Report Total (59 checks):	0.,00,2024	341,795.47
				,



TREASURER'S REPORT December 2023

					% of Portfolio			
		Bank	Carrying	Fair	Current	Rate of	Maturity	Valuation
		Balance	Value	Value	Actual	Interest		Source
Cash and Cash Equivalents:								
Demand Accounts at CVB/LAIF								
General Account/Petty Cash	\$	1,265,175	\$ 1,262,244	\$ 1,262,244	47.86%	1.08%	N/A	CVB/WF
Payroll Account	\$	25,792	\$ 13,719	\$ 13,719	0.52%	1.08%	N/A	WF
Grant Fund Account	\$	220,948	\$ 220,948	\$ 220,948	8.38%	0.00%	N/A	WF
2021 Bond Funds	\$	49	\$ -	\$ 49	0.00%	1.08%	N/A	WF
LAIF	\$	1,140,595	\$ 1,140,595	\$ 1,140,595	43.24%	3.59%	N/A	LAIF
Total Cash and Cash Equivalents	<u>\$</u>	2,652,559	\$ 2,637,506	\$ 2,637,555	<u>100.00%</u>			

Cash and investments conform to the District's Investment Policy statement filed with the Board of Directors on June 09, 2020 Cash, investments and future cash flows are sufficient to meet the needs of the District for the next six months. Sources of valuations are CVB Bank, LAIF and US Trust Bank.

Jessica Clabaugh, Finance Officer



EST 1962	BALANCE SHEET December 31, 2023 (unaudited)			ALANCE SHEET ptember 30, 2023 (unaudited)	MONTHLY CHANGE (unaudited)		
ASSETS							
CURRENT ASSETS							
Cash and cash equivalents Accounts receivable from water sales and sewer charges Inventory	\$ \$ \$	3,418,962.36 494,964.04 199,114.68	\$ \$ \$	4,337,212.58 623,986.06 197,584.10	\$ \$ \$	(918,250.22) (129,022.02) 1,530.58	
TOTAL CURRENT ASSETS	<u>\$</u>	4,312,155.76	<u> </u>	5,356,366.84	φ \$	(1,044,211.08)	
RESTRICTED ASSETS Debt Service:							
Unamortized bond issue costs	\$	125,185.22	\$	125,185.22	\$	-	
Viking Ranch Refinance issue costs	\$	(79,919.39)	\$	(79,919.39)	\$	-	
Deferred Outflow of Resources-CalPERS	\$ \$ \$	201,290.00	\$	201,290.00	\$	-	
Total Debt service	\$	246,555.83	\$	246,555.83	\$	-	
Trust/Bond funds:							
Investments with fiscal agent -CFD 2017-1	\$	743,272.87	\$	743,272.87	\$	-	
Total Trust/Bond funds	\$	743,272.87	\$	743,272.87	\$	-	
TOTAL RESTRICTED ASSETS	\$	989,828.70	<u>\$</u>	989,828.70			
UTILITY PLANT IN SERVICE							
Land	\$	1,943,433.81	\$	2,027,613.81	\$	(84,180.00)	
Flood Control Facilities	\$	4,287,340.00	\$	4,287,340.00	\$	-	
Capital Improvement Projects	\$	7,766,182.04	\$	8,287,195.26	\$	(521,013.22)	
Sewer Facilities	\$	6,936,646.48	\$	6,207,414.11	\$	729,232.37	
Water facilities	\$	17,775,417.41	\$	16,778,661.00	\$	996,756.41	
General facilities	\$	1,006,881.07	\$	1,006,881.07	\$	-	
Equipment and furniture	\$	1,065,378.09	\$	1,040,865.02	\$	24,513.07	
Vehicles	\$	757,790.31	\$	687,296.74	\$	70,493.57	
Accumulated depreciation	\$	(15,806,002.70)	\$	(14,832,075.00)	\$	973,927.70	
NET UTILITY PLANT IN SERVICE	\$	25,733,066.51	\$	25,491,192.01	\$	241,874.50	
OTHER ASSETS	<u> </u>		•		¢		
Water rights -ID4	\$	185,000.00	<u>\$</u>	185,000.00	\$	-	
TOTAL OTHER ASSETS	\$	185,000.00	\$	185,000.00			
TOTAL ASSETS	\$	31,220,050.97	<u>\$</u>	32,022,387.55	\$	(802,336.58)	



Balance sheet continued

EST 1982		BALANCE SHEET December 31, 2023 (unaudited)	BALANCE SHEET September 30, 2023 (unaudited)			MONTHLY CHANGE (unaudited)
LIABILITIES						
CURRENT LIABILITIES PAYABLE FROM CURRENT ASSETS Accounts Payable Accrued expenses Deposits TOTAL CURRENT LIABILITIES PAYABLE FROM CURRENT ASSETS	\$ \$ \$ \$	288,608.31 197,601.42 108,108.81 594,318.54	\$	(96,421.63) 197,601.42 8,108.81 109,288.60	\$\$\$\$	385,029.94 100,000.00 485,029.94
CURRENT LIABILITIES PAYABLE FOM RESTRICTED ASSETS Debt Service: Accounts Payable to CFD 2017-1 TOTAL CURRENT LIABILITIES PAYABLE FROM RESTRICTED ASSETS	<u>\$</u>	743,272.87 743,272.87	\$ \$	743,272.87 743,272.87	\$ \$	-
LONG TERM LIABILITIES 2018A & 2018B Refinance ID4/Viking Ranch 2021 Installment Purchase Agreement Net Pension Liability-CalPERS Deferred Inflow of Resources-CalPERS TOTAL LONG TERM LIABILITIES	\$ \$ \$ \$ \$	1,264,860.00 6,643,900.00 303,531.00 281,931.00 8,494,222.00		1,264,860.00 7,080,970.00 303,531.00 281,931.00 8,931,292.00	\$ \$ \$ \$ \$	(437,070.00) - (437,070.00)
TOTAL LIABILITIES FUND EQUITY Contributed equity	<u>\$</u> \$	<u>9,831,813.41</u> 9,611,814.35	<u>\$</u> \$	9,783,853.47 9,611,814.35	\$ \$	47,959.94
Retained Earnings: TOTAL FUND EQUITY	\$ \$	11,776,423.21 21,388,237.56	\$ \$	12,626,719.73 22,238,534.08	\$ \$	(850,296.52) (850,296.52)
TOTAL LIABILITIES AND FUND EQUITY	<u>\$</u>	31,220,050.97	<u>\$</u>	32,022,387.55	\$	(802,336.58)

To: From:

BWD Board of Directors Jessica Clabaugh Consideration of Watermaster related Income and Expenses for FY24 Subject:



						Grues
			Net Expenses d	uring	g this Period	\$ 18,472.6
Date	Name	Description	Income		Expense	Year To Date
7/31/2023 BBK		Stipulation/Groundwater Rights		\$	2,941.00	\$ (2,941.0
7/31/2023 BBK		Watermaster Activities		\$	207.60	\$ (3,148.6
7/31/2023 Intera		T2: TAC Meetings		\$	3,180.00	\$ (6,328.6
7/31/2023 Intera		T3: Annual Report Review		\$	2,165.00	\$ (8,493.6
7/31/2023 Intera		T4: SY Review		\$	3,955.00	\$ (12,448.6
7/31/2023 Intera		T5: Land Use Sub Comm Existing Well Review		\$	6,227.50	\$ (18,676.
7/31/2023 Intera		Groundwater Quality Risk Assessment Update		\$	13,635.00	\$ (32,311.
8/30/2023 BBK		Stipulation/Groundwater Rights		\$	553.60	\$ (32,864.
8/30/2023 BBK		Watermaster Activities		\$	2,783.00	\$ (35,647.
8/30/2023 BWD		Record Staff Time		\$	318.16	\$ (35,965.
8/30/2023 Intera		T2: TAC Meetings		\$	2,122.50	\$ (38,088.
8/30/2023 Intera		T3: Annual Report Review		\$	8,345.00	\$ (46,433.
8/30/2023 Intera		T4: SY Review		\$	100.00	\$ (46,533.
8/30/2023 Intera		T5: Land Use Sub Comm Existing Well Review		\$	2,517.50	\$ (49,050
8/30/2023 Intera		Groundwater Quality Risk Assessment Update		\$	7,112.50	\$ (56,163
9/30/2023 BBK		Stipulation/Groundwater Rights		\$	69.20	\$ (56,232
9/30/2023 BBK		Watermaster Activities		\$	2,175.90	\$ (58,408
9/30/2023 Intera		T1: Watermaster Board Meetings		\$	795.00	\$ (59,203
9/30/2023 Intera		T2: TAC Meetings		\$	11,167.50	\$ (70,370
9/30/2023 Intera		T3: Annual Report Review		\$	1,400.00	\$ (71,770
9/30/2023 Intera		T4: SY Review		\$	2,865.00	\$ (74,635
9/30/2023 BWD		Income - Meter Reading Services July & Sept 23	\$ 1,688.68			\$ (72,947
10/31/2023 BBK		Stipulation/Groundwater Rights		\$	56.40	\$ (73,003
10/31/2023 BBK		Watermaster Activities		\$	5,618.40	\$ (78,622
10/31/2023 BWD		Record Staff Time		\$	318.16	\$ (78,940
10/31/2023 Borrego	Springs Watermaster	Meter Reading Services		\$	3,062.62	\$ (82,002
10/31/2023 Intera		T1: Watermaster Board Meetings		\$	530.00	\$ (82,532
10/31/2023 Intera		T2: TAC Meetings		\$	5,565.00	\$ (88,097
10/31/2023 Intera		T6: Review Prop 68 Fallowing and GDE Projects		\$	3,385.00	\$ (91,482
11/30/2023 BBK		Stipulation/Groundwater Rights		\$	1,703.10	\$ (93,185
11/30/2023 BBK		Watermaster Activities		\$	2,525.80	\$ (95,711
11/30/2023 BWD		Record Staff Time		\$	318.16	\$ (96,029
11/30/2023 Intera		T1: Watermaster Board Meetings		\$	1,590.00	\$ (97,619
11/30/2023 Intera		T2: TAC Meetings		\$	2,387.50	\$ (100,007
11/30/2023 Intera		T3: Annual Report Review		\$	4,025.00	\$ (104,032
12/31/2023 BBK		Stipulation/Groundwater Rights		\$	3,245.90	\$ (107,278
12/31/2023 Intera		T1: Watermaster Board Meetings		\$	795.00	\$ (108,073
12/31/2023 Intera		T2: TAC Meetings		\$	662.50	\$ (108,735.)