

**BEFORE THE BOARD OF DIRECTORS
INDIAN WELLS VALLEY GROUNDWATER AUTHORITY**

In the matter of:

Resolution No. 02-20

**ADOPTING GROUNDWATER WELL FLOWMETER
STANDARDS FOR THE INDIAN WELLS
VALLEY GROUNDWATER BASIN.**

I, April Nordenstrom, Clerk of the Board of Directors for the Indian Wells Valley Groundwater Authority, do certify that the following resolution, on motion of Director Kicinski, seconded by Director Hayman, was duly passed and adopted by the Board of Directors at an official meeting this 19th day of March, 2020, by the following vote:

AYES: Gleason, Hayman, Kicinski, Page, Vallejo

NOES: None

ABSENT: None

Clerk of the Board of Directors
Indian Wells Valley Groundwater Authority


Deputy Clerk

RESOLUTION

Section 1. WHEREAS:

(a) The Indian Wells Valley Groundwater Authority (“Authority”) was formed for the express purpose of cooperatively carrying out the requirements of the Sustainable Groundwater Management Act (“SGMA”), including, but not limited to, the funding, development, adoption and implementation of a Groundwater Sustainability Plan (“GSP”) that achieves groundwater sustainability in the Indian Wells Valley Groundwater Basin.

(b) The Authority is the exclusive Groundwater Sustainability Agency for the Indian Wells Valley Groundwater Basin, which is designated as Basin number 6-54 in Department of Water Resources’ Bulletin No. 118.

(c) The Authority adopted the “Groundwater Sustainability Plan for the Indian Wells Valley

Groundwater Basin” on January 16, 2020.

(d) A fundamental component of the Groundwater Sustainability Plan for the Indian Wells Valley Groundwater Basin is the accurate measurement, reporting and monitoring of groundwater extractions and, with the exception of certain extraction facilities, SGMA provides the Authority with the express power to require the metering of all extraction facilities in the Basin.

(e) The Authority has reviewed and considered the environmental impacts of this action and concluded that this action is exempt from further environmental review pursuant to California Environmental Quality Act Guidelines section 15273 and Public Resources Code section 21080(b)(8) because it is for the establishment of operational rates and charges. Additionally, it has been determined that this action is exempt from further environmental review pursuant Guidelines section 15061(b)(3) because it can be seen with a certainty that this action will not have a significant effect on the environment. Moreover, it has been determined that this action is exempt from further environmental review pursuant Guidelines section 15378(b)(5) because it involves administrative activities that will not result in direct or indirect physical changes in the environment.

Section 2. IT IS RESOLVED by the Board of Supervisors of the County of Kern, State of California, as follows:

1. This Resolution shall take immediate effect.
2. This Board finds that the recited facts are true and that it has the jurisdiction to consider, approve, and adopt this Resolution.
3. This Board incorporates and makes all the findings recommended by staff, whether verbally or in their written reports.
4. This Board finds and determines that the applicable provisions of the California Environmental Quality Act of 1970 (“CEQA”), the State CEQA Guidelines, and the Kern County Guidelines have been observed in conjunction with the hearing and the considerations of this matter and it is exempt from further CEQA review pursuant Public Resources Code section 21080(b)(8) and Guidelines Sections 15273, 15061(b)(3) and 15378(b)(5).
5. The Groundwater Well Flowmeter Standards attached and incorporated into this Resolution are adopted as the Groundwater Well Flowmeter Standards for the Indian Wells Valley Groundwater Authority.

Appendix A

List of Acceptable Meters

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Manufacturer	Model	Tamperproof	AMI/AMR Compatible	NSF/ANSI Standards 61	Meter Type	Normal Flow Range (gpm)			
						Size	Min	Max	Max psi
Badger Meter, Inc.	Recordall Disc 25	Yes	Yes	Yes	Positive Displacement	5/8" x 3/4"	0.5	25	150
Badger Meter, Inc.	Recordall Disc 35	Yes	Yes	Yes	Positive Displacement	3/4"	0.75	35	150
Badger Meter, Inc.	Recordall Disc 55	Yes	Yes	Yes	Positive Displacement	1"	1	55	150
Badger Meter, Inc.	Recordall Disc 70	Yes	Yes	Yes	Positive Displacement	1"	1.25	70	150
Badger Meter, Inc.	Recordall Disc 120	Yes	Yes	Yes	Positive Displacement	1-1/2"	2.5	120	150
Badger Meter, Inc.	Recordall Disc 170	Yes	Yes	Yes	Positive Displacement	2"	2.5	170	150
Badger Meter, Inc.	Recordall Turbo 160	Yes	Yes	Yes	Turbine	1.5"	4	200	150
Badger Meter, Inc.	Recordall Turbo 200	Yes	Yes	Yes	Turbine	2"	4	310	150
Badger Meter, Inc.	Recordall Turbo 450	Yes	Yes	Yes	Turbine	3"	5	550	150
Badger Meter, Inc.	Recordall Turbo 1000	Yes	Yes	Yes	Turbine	4"	10	1250	150
Badger Meter, Inc.	Recordall Turbo 2000	Yes	Yes	Yes	Turbine	6"	20	2500	150
Badger Meter, Inc.	Recordall Turbo 3500	Yes	Yes	Yes	Turbine	8"	30	4500	150
Badger Meter, Inc.	Recordal Turbo 5500	Yes	Yes	Yes	Turbine	10"	50	7000	150
Badger Meter, Inc.	Recordal Turbo 6200	Yes	Yes	Yes	Turbine	12"	90	8800	150
Badger Meter, Inc.	E-Series	Yes	Yes, when choosing the model with in-line connector for easy connection and installation to AMI/AMR endpoints.	Yes	Ultrasonic	5/8"	0.05	25	175
Badger Meter, Inc.	E-Series	Yes	Yes, when choosing the model with in-line connector for easy connection and installation to AMI/AMR endpoints.	Yes	Ultrasonic	5/8" x 3/4"	0.05	25	175
Badger Meter, Inc.	E-Series	Yes	Yes, when choosing the model with in-line connector for easy connection and installation to AMI/AMR endpoints.	Yes	Ultrasonic	3/4"	0.05	32	175
Badger Meter, Inc.	E-Series	Yes	Yes, when choosing the model with in-line connector for easy connection and installation to AMI/AMR endpoints.	Yes	Ultrasonic	1"	0.25	55	175
Badger Meter, Inc.	E-Series	Yes	Yes, when choosing the model with in-line connector for easy connection and installation to AMI/AMR endpoints.	Yes	Ultrasonic	1.5"	0.4	100	175
Badger Meter, Inc.	E-Series	Yes	Yes, when choosing the model with in-line connector for easy connection and installation to AMI/AMR endpoints.	Yes	Ultrasonic	2"	0.5	160	175
Master Meter	BLMJ	Weather sealed	Yes, when choosing AMR register	Yes	Multi-Jet	5/8"	1	20	150
Master Meter	BLMJ	Weather sealed	Yes, when choosing AMR register	Yes	Multi-Jet	3/4" x 7 1/2"	2	30	150
Master Meter	BLMJ	Weather sealed	Yes, when choosing AMR register	Yes	Multi-Jet	3/4" x 9"	2	30	150
Master Meter	BLMJ	Weather sealed	Yes, when choosing AMR register	Yes	Multi-Jet	3/4" x 9" x 1"	2	30	150
Master Meter	BLMJ	Weather sealed	Yes, when choosing AMR register	Yes	Multi-Jet	1"	3	50	150
Neptune Technology	T-10	Yes	Yes, can upgrade from direct read registers to Neptune's absolute encoder registers.	Yes	Positive Displacement	5/8"	0.5	20	150
Neptune Technology	T-10	Yes	Yes, can upgrade from direct read registers to Neptune's absolute encoder registers.	Yes	Positive Displacement	3/4"	0.75	30	150
Neptune Technology	T-10	Yes	Yes, can upgrade from direct read registers to Neptune's absolute encoder registers.	Yes	Positive Displacement	1"	1	50	150
Neptune Technology	TRU/FLO Compound	Yes	No, possibly with 3rd party tech	Yes	Positive Displacement	2"	0.5	200	150
Neptune Technology	TRU/FLO Compound	Yes	No, possibly with 3rd party tech	Yes	Positive Displacement	3"	0.5	450	150
Neptune Technology	TRU/FLO Compound	Yes	No, possibly with 3rd party tech	Yes	Positive Displacement	4"	1	1000	150
Neptune Technology	TRU/FLO Compound	Yes	No, possibly with 3rd party tech	Yes	Positive Displacement	6"	1.5	2000	150
Neptune Technology	TRU/FLO Compound	Yes	Yes	Yes	Positive Displacement	6" x 8"	1.5	2000	150
Sensus	Omni T2	No	Yes	Yes	Turbine	1 1/2"	1.25	200	200
Sensus	Omni T2	No	Yes	Yes	Turbine	2"	1.5	250	200
Sensus	Omni T2	No	Yes	Yes	Turbine	3"	2.5	650	200
Sensus	Omni T2	No	Yes	Yes	Turbine	4"	3	1250	200
Sensus	Omni T2	No	Yes	Yes	Turbine	6"	4	2500	200
Sensus	Omni T2	No	Yes	Yes	Turbine	8"	5	3500	200
Sensus	Omni T2	No	Yes	Yes	Turbine	10"	6	5500	200
Sensus	Omni C2	No	Yes	Yes	Turbine	1 1/2"	0.5	200	200
Sensus	Omni C2	No	Yes	Yes	Turbine	2"	0.5	200	200
Sensus	Omni C2	No	Yes	Yes	Turbine	3"	1	500	200
Sensus	Omni C2	No	Yes	Yes	Turbine	4"	1.5	1000	200
Sensus	Omni C2	No	Yes	Yes	Turbine	6"	3	2000	200
Sensus	Omni C2	No	Yes	Yes	Turbine	8"	4	2700	200
Sensus	Omni C2	No	Yes	Yes	Turbine	10"	5	4000	200
Sensus	Omni R2	No	Yes	Yes	Turbine	1 1/2"	2	150	200
Sensus	Omni R2	No	Yes	Yes	Turbine	2"	2.5	200	200
Sensus	SRII	Yes	Yes	Yes	Displacement	5/8"	1	20	150
Sensus	SRII	Yes	Yes	Yes	Displacement	3/4"	2	30	150
Sensus	SRII	Yes	Yes	Yes	Displacement	1"	3	50	150

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Appendix B

Contractors for Meter Testing

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Approved Contractors for Meter Testing

Golden Meters Service

Office: 714-653-2900

Field: 714-450-5929

Email: goldenmetersservice@gmail.com

McCall's Meters

1498 Mesa View St.

Hemet, CA 92543

Office: [951-654-3799](tel:951-654-3799)

Email: info@mccallsmeters.com

Pump Check

P.O. Box 5646

Riverside, CA 92517

Office: 951-653-1910

Email: info@pumpcheck.com

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Appendix C

Contractors for Meter Installation

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Approved Contractors for Meter Installation

Golden Meters Service

Office: 714-653-2900

Field: 714-450-5929

Email: goldenmetersservice@gmail.com

McCall's Meters

1498 Mesa View St.

Hemet, CA 92543

Office: [951-654-3799](tel:951-654-3799)

Email: info@mccallsmeters.com

Pump Check

P.O. Box 5646

Riverside, CA 92517

Office: 951-653-1910

Email: info@pumpcheck.com

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Appendix D

Flowmeter Update Form

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Flowmeter Update Form

Well Owner: _____	Well Operator: _____
Owner Address: _____	Operator Address: _____
City, State, Zip: _____	City, State, Zip: _____
Owner Telephone: _____	Operator Telephone: _____
Contact Person: _____	Contact Person: _____
State Well Number: _____	Owner's Well Number: _____
Well or Site Address: _____	Thomas Guide - Page & Section: _____
Meter Manufacturer: _____	Is This Meter New from Manufacturer?: <u>YES</u> <u>NO</u>
Meter Serial Number: _____	Discharge Pipe Size (inches): _____
Manufacture Date: _____	Tap Size & Type: _____
Meter Size (inches): _____	Meter Bypass Piping: <u>YES</u> <u>NO</u> <u>Other</u>
Meter Units of Measure: <u>AF</u> <u>CF</u> <u>Gal</u> <u>MI/h</u> <u>Other</u>	Is This A Bypass Meter?: <u>YES</u> <u>NO</u>
Meter Multiplier (on meter face): _____	Well / Flowmeter Access: <u>Shed</u> <u>Open</u> <u>Behind Locked Gate</u>
Meter Style: _____	<u>Underground Vault</u> <u>Other</u>
Meter Use: <u>Agricultural</u> <u>Domestic</u> <u>Municipal</u> <u>Industrial</u>	Pump Motor/Engine (horsepower): _____

Proof of flowmeter accuracy provided by manufacturer or an Agency approved flowmeter repair facility may be submitted in lieu of in-place flowmeter testing, providing the flowmeter was installed according to manufacturer specifications.

Calibration or Repair Test Results for In-Place Flowmeter Testing

(SCE test reports are to be submitted as an attachment)

Test #1	Meter Reading	Meter Reading	Run Time	Accuracy
	End	Start		
Customer				
Control				
Test #2				
Customer				
Control				
Test #3				
Customer				
Control				

Is the Customer Meter within a range of + or - 3% compared to the Control Meter?

(Approved Meter Calibration Contractor: please check the appropriate box at right)

YES	NO
PASS	FAIL

Remarks: _____

Calibration Contractor/Vendor: _____
 Technician Name: _____ Date & Time of Test: _____

Flowmeter Update Form

Owner/ Operator and Well Information:

Well Owner: _____ Well Operator: _____
State Well Number: _____ Owner's Well Number: _____

For all flowmeter changes, complete both pages of this form and submit along with items listed below:

- 1.) Photograph of flowmeter installation (flowmeter and well in the same photo frame);
- 2.) Legible photographs of meter face and serial number; and
- 3.) Flowmeter invoice or installation work order.

Repair/ Replacement/ New:

Current Flowmeter Is (circle one): Repaired or Refurbished Flowmeter Transferred to Location New From Manufacturer
Date of Installation or Reinstallation: _____ Start Meter Reading: _____

For first time flowmeter installations skip to "Signature" section below.

Old Meter Information:

Meter Manufacturer: _____ Date Failure Discovered: _____
Meter Serial Number: _____ Date Meter Removed: _____
Manufacture Date: _____ Ending Meter Reading: _____
Meter Size (inches): _____ Comments: _____
Meter Units of Measure: AF CF Gal MI/h Other _____
Meter Multiplier (on meter face): _____
Meter Style: _____
Meter Use: Agricultural Domestic Municipal Industrial _____
Estimated Un-metered Groundwater Use Before Failure Discovered: _____ gallons or acre-feet (circle one)
Describe How Groundwater Use Was Estimated: _____

Note: If failure was discovered during flowmeter calibration test, submit the failed Flowmeter Calibration Test Report

Groundwater Usage Estimate

(For period between discovered flowmeter failure and repaired/replacement/new flowmeter installation)

Estimated Groundwater Use: _____ gallons or acre-feet (circle one)
Describe How Groundwater Use Was Estimated: _____

Signature:

I DECLARE under penalty of perjury under the laws of the State of California that the information contained in this form is true and correct

Print Name: _____ Date: _____
Signature: _____

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