



RAINBOW MUNICIPAL WATER DISTRICT
Tuesday, July 24, 2018
Closed Session – Time: 12:00 p.m.
Open Session - Time: 1:00 p.m.

THE PURPOSE OF THE REGULAR BOARD MEETING IS TO DISCUSS THE ATTACHED AGENDA

District Office 3707 Old Highway 395 Fallbrook, CA 92028
Other Location via Teleconference Wireless Station at Corner of Lindbergh Avenue and Stits Road Camp Scholler Oshkosh, WI

Board Agenda Policies

Board of Directors Meeting Schedule Regular Board meetings are normally scheduled for the 4th Tuesday of the month with Open Session discussions starting time certain at 1:00 p.m.

Breaks It is the intent of the Board to take a ten minute break every hour and one-half during the meeting.

Public Input on Specific Agenda Items and those items not on the Agenda, Except Public Hearings Any person of the public desiring to speak shall fill out a "Speaker's Slip", encouraging them to state their name, though not mandatory. Such person shall be allowed to speak during public comment time and has the option of speaking once on any agenda item when it is being discussed. Speaking time shall generally be limited to three minutes, unless a longer period is permitted by the Board President.

Public Items for the Board of Directors' agenda must be submitted in writing and received by the District office no later than 10 business days prior to a regular Board of Directors' Meeting.

Agenda Posting and Materials Agendas for all regular Board of Directors' meetings are posted at least seventy-two hours prior to the meeting on bulletin boards outside the entrance gate and the main entrance door of the District, 3707 Old Highway 395, Fallbrook, California 92028. The agendas and all background material may also be inspected at the District Office.

You may also visit us at www.rainbowmwd.com.

Time Certain Agenda items identified as "time certain" indicate the item will not be heard prior to the time indicated.

Board meetings will be recorded as a secretarial aid. If you wish to listen to the recordings, they will be available after the draft minutes of the meeting have been prepared. There is no charge associated with copies of recordings. Recordings will be available until the minutes of such meeting are approved. Copies of public records are available as a service to the public; a charge of \$.10 per page up to 99 pages will be collected and \$.14 per page for 100 pages or more.

If you have special needs because of a disability which makes it difficult for you to participate in the meeting or you require assistance or auxiliary aids to participate in the meeting, please contact the District Secretary, (760) 728-1178, by at least noon on the Friday preceding the meeting. The District will attempt to make arrangements to accommodate your disability.

(*) - Asterisk indicates a report is attached.

Notice is hereby given that the Rainbow Municipal Water District Board of Directors will hold Closed Session at 12:00 p.m. and Open Session at 1:00 p.m. Tuesday, July 24, 2018, at the District Office located at 3707 Old Highway 395, Fallbrook, CA 92028. At any time during the session, the Board of Directors Meeting may adjourn to Closed Session to consider litigation or to discuss with legal counsel matters within the attorney client privilege.

AGENDA

1. **CALL TO ORDER**
 2. **ROLL CALL: Brazier ___ Hamilton ___ Gasca ___ Mack ___ Stewart ___**
 3. **ADDITIONS/DELETIONS/AMENDMENTS TO THE AGENDA (Government Code §54954.2)**
 4. **ORAL/WRITTEN COMMUNICATIONS FROM THE PUBLIC OPPORTUNITY FOR MEMBERS OF THE PUBLIC TO ADDRESS THE BOARD REGARDING CLOSED SESSION AGENDA ITEMS (Government Code § 54954.2).**
Under Oral Communications, any person wishing to address the Board on matters regarding the Closed Session agenda should indicate their desire to speak by filling out and submitting a "Speaker's Slip" to the Board Secretary before the meeting begins. *Speaking time shall generally be limited to three minutes, unless a longer period is permitted by the Board President.*
 5. **CLOSED SESSION**
 - A. Appointment, Employment; Evaluation of Performance – General Manager (Government Code §54957)
 - B. Conference with Legal Counsel regarding anticipated litigation pursuant to Government Code section 54956.9(d)(2) - one case
 6. **REPORT ON POTENTIAL ACTION FROM CLOSED SESSION**
- Time Certain: 1:00 p.m.
7. **PLEDGE OF ALLEGIANCE**
 8. **REPEAT REPORT ON POTENTIAL ACTION FROM CLOSED SESSION**
 9. **REPEAT ADDITIONS/DELETIONS/AMENDMENTS TO THE AGENDA (Government Code §54954.2)**
 10. **ORAL/WRITTEN COMMUNICATIONS FROM THE PUBLIC OPPORTUNITY FOR MEMBERS OF THE PUBLIC TO ADDRESS THE BOARD REGARDING ITEMS NOT ON THIS AGENDA (Government Code § 54954.2).**
Under Oral Communications, any person wishing to address the Board on matters not on this agenda should indicate their desire to speak by filling out and submitting a "Speaker's Slip" to the Board Secretary before the meeting begins. *No action will be taken on any oral communications item since such item does not appear on this Agenda, unless the Board of Directors makes a determination that an emergency exists or that the need to take action on the item arose subsequent to posting of the Agenda (Government Code §54954.2). Speaking time shall generally be limited to three minutes, unless a longer period is permitted by the Board President.*
 11. **EMPLOYEE RECOGNITIONS**
 - A. Chris Hoelscher (10 Years)

(*) - Asterisk indicates a report is attached.

***12. APPROVAL OF MINUTES**

- A. June 26, 2018 - Regular Board Meeting

13. BOARD OF DIRECTORS' COMMENTS/REPORTS

Directors' comments are comments by Directors concerning District business, which may be of interest to the Board. This is placed on the agenda to enable individual Board members to convey information to the Board and to the public. There is to be no discussion or action taken by the Board of Directors unless the item is noticed as part of the meeting agenda.

- A. President's Report (President Brazier)
- B. Representative Report (Appointed Representative)
 - 1. SDCWA
 - A. Summary of Board Meeting June 28, 2018
 - 2. CSDA
 - 3. LAFCO
 - 4. San Luis Rey Watershed Council
 - 5. Santa Margarita River Watershed Watermaster Steering Committee
- C. Meeting, Workshop, Committee, Seminar, Etc. Reports by Directors (AB1234)
 - 1. Board Seminar/Conference/Workshop Training Attending Requests and Reports
- D. Directors Comments
- E. Legal Counsel Comments
 - 1. Water Quality, Nuisance and Inverse Condemnation Nuisance Claims (501668-0002)

***14. COMMITTEE REPORTS (Approved Minutes have been attached for reference only.)**

- A. Budget and Finance Committee
 - 1. June 12, 2018 Minutes
- B. Communications and Customer Service Committee
 - 1. June 7, 2018 Minutes
- C. Engineering and Operations Committee

BOARD INFORMATION ITEMS

15. CONSIDER STAFF PRESENTATION ON FLUME WATER METER MONITORING SYSTEM

(The District is conducting a pilot program to test a device from Flume Inc. that will allow customers to see real time water consumption information that has great accuracy. The pilot is intended to evaluate whether this technology could meet the goal of providing customers with more information about their water consumption. The cost is expected to be less than traditional AML.)

BOARD ACTION ITEMS

***16. CONSIDER APPROVAL OF A PROFESSIONAL SERVICES AGREEMENT WITH ABM BUILDING SOLUTIONS, LLC FOR A DISTRICTWIDE METER REPLACEMENT AND WATER SERVICE UPGRADE PROJECT AND AUTHORIZE THE GENERAL MANAGER TO SIGN THE AGREEMENT ON THE DISTRICT'S BEHALF**

(This item is for the consideration of a contract to replace the District's aging water meters and perform certain upgrades to water service assemblies. The meter replacement is expected to decrease the amount of water loss and increase revenue by at least \$1 Million per year.)

(*) - Asterisk indicates a report is attached.

- 17. CONSIDER EXTENSION OF PARTIAL SEWER FEE WAIVER FOR 2017 LILAC FIRE VICTIMS**
(In December 2017, the Lilac fire devastated our community, burning down nearly 100 homes. In early 2018 the Board of Directors approved a program for allowing sewer customers whose homes had burned to apply for relief from the sewer fees while their homes were being rebuilt. This action item is to consider extending the fee waiver program for an additional six months.)
- 18. DISCUSSION AND POSSIBLE ACTION REGARDING STUDIES TO ADVANCE BONSALL BASIN DESALTER IMPLEMENTATION**
(Dudek has completed an investigation into the volume of recoverable imported water return flows in the Gird Road Watershed which feeds the Bonsall Basin within the District's service area. This investigation has produced meaningful data to inform a decision on whether or not to continue the Bonsall Basin Desalter feasibility study.)
- 18A. DISCUSSION AND POSSIBLE APPOINTMENT OF TREASURER**
(The last delegation of authority occurred in January 2017 and has expired. A new delegation of authority selecting a Treasurer is needed to comply with the Investment policy section 5.03.070.)
- *19. DISCUSSION AND POSSIBLE ACTION TO ADOPT RESOLUTION NO. 18-12, ADOPTING PART-TIME EMPLOYEE BENEFITS POLICY**
(Since part-time employees are not covered by the benefits outlined in the MOUs, the District needs a benefits policy that covers part-time employees in order to comply with paid sick leave laws, CalPERS rules, and other regulations governing the 457b and 401a deferred compensation plans.)
- *20. DISCUSSION AND POSSIBLE ACTION TO ADOPT ORDINANCE NO. 18-16 AMENDING AND UPDATING ADMINISTRATIVE CODE SECTION 2.01.010**
(At their June 26, 2018 meeting, the Board decided to review the policy in greater detail and bring any comments and input to the July 24, 2018 for consideration and possible adoption of a new policy.)
- 21. DISCUSSION AND POSSIBLE ACTION TO APPOINT JULIE JOHNSON AS A MEMBER OF THE COMMUNICATIONS AND CUSTOMER SERVICE COMMITTEE**
(At their July 12, 2018 meeting, the Communications and Customer Service committee members approved a motion recommending to the Board that Ms. Johnson be appointed to serve as a member of the committee. The committee currently has member vacancies to fill.)
- *22. CALIFORNIA SPECIAL DISTRICTS ASSOCIATION (CSDA) BOARD OF DIRECTORS SEAT A ELECTION**
(It is up to each district to determine their own process in terms of selecting a candidate to vote for in the election. The section will be cast by the main contact only before August 10, 2018. On August 13, 2018, ballots will be counted and verified.)
- 23. DATE CONFIRMATION FOR STRATEGIC PLAN WORKSHOP**
- 24. AUTHORIZATION TO ATTEND UPCOMING MEETINGS / CONFERENCES / SEMINARS**
- 25. DISCUSSION AND POSSIBLE ACTION TO CHANGE SEPTEMBER 25, 2018 MEETING OF THE BOARD OF DIRECTORS**
- *26. RECEIVE AND FILE INFORMATION AND FINANCIAL ITEMS**
- A. General Manager Comments**
 - 1. Meetings, Conferences and Seminar Calendar
 - B. Communications**
 - 1. Staff Training Reports
 - C. Operations Comments**
 - 1. Operations Report

(*) - Asterisk indicates a report is attached.

D. Engineering Comments

1. Engineering Report

E. Human Resource & Safety Comments

1. Human Resources Report

2. Organizational Chart

F. Finance Comments

1. Interim Financial Statement

2. Treasurer Report

3. Credit Card Breakdown

4. Directors' Expense

5. Check Register

6. Water Sales Summary

7. RMWD Sewer Equivalent Dwelling Units (EDU's) Status

27. LIST OF SUGGESTED AGENDA ITEMS FOR THE NEXT REGULAR BOARD MEETING

28. ADJOURNMENT - To Tuesday, August 28, 2018 at 1:00 p.m.

ATTEST TO POSTING:



Hayden Hamilton
Secretary of the Board

7-19-18 @ 9:00 a.m.

Date and Time of Posting
Outside Display Cases

(*) - Asterisk indicates a report is attached.

**MINUTES OF THE REGULAR BOARD MEETING
OF THE BOARD OF DIRECTORS OF THE
RAINBOW MUNICIPAL WATER DISTRICT
JUNE 26, 2018**

1. **CALL TO ORDER** - The Regular Meeting of the Board of Directors of the Rainbow Municipal Water District on June 26, 2018 was called to order by President Brazier at a:02 p.m. in the Board Room of the District, 3707 Old Highway 395, Fallbrook, CA 92028. President Brazier presiding.

2. **PLEDGE OF ALLEGIANCE**

3. **ROLL CALL:**

Present: Director Brazier, Director Hamilton, Director Mack, Director Stewart (*arrived at 1:52 p.m.*), Director Gasca.

Also Present: Human Resources Manager Harp, Legal Counsel Smith, Executive Assistant Washburn, Administrative Analyst Gray, Associate Engineer Powers, Finance Manager Martinez, Operations Manager Strapac, Superintendent Maccarrone, Superintendent Walker, Superintendent Zuniga, Accounting Specialist Rubio.

Four members of the public were present.

4. **ADDITIONS/AMENDMENTS TO THE AGENDA (Government Code §54954.2)**

There were no amendments to the agenda.

5. **ORAL/WRITTEN COMMUNICATIONS FROM THE PUBLIC
OPPORTUNITY FOR MEMBERS OF THE PUBLIC TO ADDRESS THE BOARD REGARDING
ITEMS NOT ON THIS AGENDA (Government Code § 54954.2).**

John Sjursen, a former RMWD Board Member, introduced himself as the representative for the twelve properties known as Rainbow Highlands. He mentioned staff recommended he address the Board regarding the property owners having a possibility of selling the properties but that the interested buyer would like one-half of the capacity charges waived. He mentioned seven of the properties have 2” meters and the remaining five have 1.5” meters resulting in considerable capacity fees. He said after speaking with customer service and Mrs. Martinez he was referred to the Board to make this request. President Brazier suggested he speak with Mr. Kennedy about possibly having this matter placed on the agenda for Board consideration in July.

6. **EMPLOYEE RECOGNITIONS**

A. Ruben Lopez (10 Years)

Mrs. Harp mentioned Ruben Lopez works in the Wastewater Department and will be testing soon for his Collections III certification. She presented Mr. Lopez with a plaque in check in recognition of his tenure.

(*) - Asterisk indicates a report is attached.

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Mrs. Harp formally introduced Steve Strapac, RMWD's new District Engineer. Mr. Strapac mentioned he has been a ratepayer for fifteen years and his family has been growing avocados since the 1970's. He said he was excited to be here and looking forward to making some positive changes, improve services for the ratepayers, as well as improve efficiencies overall. President Brazier pointed out Mr. Strapac served on the Engineering Committee from very early on during which time he initiated some moves to investigate local sources of water that are still in motion today.

***7. APPROVAL OF MINUTES**

A. May 22, 2018 - Regular Board Meeting

Motion:

To approve the minutes as written.

Action: Approve, Moved by Director Gasca, Seconded by Director Mack.

Vote: Motion carried by unanimous vote (summary: Ayes = 4).

Ayes: Director Brazier, Director Hamilton, Director Mack, Director Gasca.

Absent: Director Stewart.

***8. BOARD OF DIRECTORS' COMMENTS/REPORTS**

Directors' comments are comments by Directors concerning District business, which may be of interest to the Board. This is placed on the agenda to enable individual Board members to convey information to the Board and to the public. There is to be no discussion or action taken by the Board of Directors unless the item is noticed as part of the meeting agenda.

A. President's Report (Director Brazier)

President Brazier mentioned there was an article in The Village News regarding FPUD seeking expansion of their latent powers that involves entities which control some of RMWD's ratepayers. She encouraged everyone to pay attention to the information published regarding this matter.

B. Representative Report (Appointed Representative)

1. SDCWA

A. Summary of Board Meeting May 24, 2018

Mrs. Harp mentioned the meeting was scheduled for June 28, 2018.

2. CSDA

There was no report given.

3. LAFCO

Director Hamilton mentioned there was an article in The Village News on June 7th regarding LAFCO readdressing the Sphere of Influence that may impact RMWD in 2010. He stated he asked Mr. Kennedy to stay in front of this matter.

(*) - Asterisk indicates a report is attached.

4. San Luis Rey Watershed Council

Director Gasca mentioned a request he received from Director Stewart asking that he attend the July Council meeting in Director Stewart’s absence.

5. Santa Margarita River Watershed Watermaster Steering Committee

Director Hamilton stated he will be attending the next meeting scheduled for July 17, 2018.

C. Meeting, Workshop, Committee, Seminar, Etc. Reports by Directors (AB1234)

1. Board Seminar/Conference/Workshop Training Attending Requests and Reports

There were no reports given.

D. Directors Comments

Director Mack reminded the Board he would not be attending the July Board meeting. He also mentioned the City of San Marcos has a new healthcare plan with a “Difference Card” that may be of interest to RMWD. cos about the “Difference Card” as an alternative health care option. He offered to forward the information on the plan to staff for review.

Director Gasca talked about the Palomar College Grand Opening event he attended. He also mentioned a request as well as other options brought before the Fallbrook Planning Group that were ultimately denied. He also mentioned the filing dates for November 6, 2018 election candidates is July 16-August 10, 2018.

E. Legal Counsel Comments

1. Attorney Report: Independent Contractors (150152-0005)

Legal Counsel explained the new law changes regarding independent contractors. He noted this was an important case for changing the standards in it puts the responsibility on the employer to disprove whether a contractor is an employee and they are in fact sufficiently independent. Discussion ensued regarding applying the new law to subcontractors.

***9. COMMITTEE REPORTS (Approved Minutes have been attached for reference only.)**

A. Budget and Finance Committee

1. May 8, 2018 Minutes

Mr. Stitle reported the committee recommended the Board approve ADP for payroll services which he believes will be less expensive than incurring labor costs. He also noted the committee recommended approval of the budget; however, the committee does not believe RMWD was putting enough money into reserve accounts.

B. Communications and Customer Service Committee

1. May 3, 2018 Minutes

Director Hamilton reported the committee will be considering recommending the Board appoint a member of the public interested in serving on the committee. He noted Customer Service Representative De La Cerda has been appointed to attend the committee meetings to provide updates and input from RMWD’s Customer Service Department.

(*) - Asterisk indicates a report is attached.

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Director Hamilton mentioned Mr. Kennedy shared information on a product from Flume Tech being made available for purchase by individuals so they can monitor their water use more effectively. He confirmed these devices work on the District's current meters, but are still in development for use on the new meters. Mrs. Gray pointed out a pilot program is currently underway with a limited amount of RMWD customers.

C. Engineering and Operations Committee

1. May 2, 2018 Minutes

Mr. Powers reported the committee discussed the AMI project, Flume Technologies, as well as discussion on the south zone water supply project. He stated the committee found the south zone water supply project would not be feasible.

Time Certain: 1:00 p.m. Public Hearings

***10. PUBLIC HEARINGS**

A. PUBLIC HEARING ON IMPROVEMENT DISTRICT NO. 1 WATER STANDBY CHARGES AND DISCUSSION AND POSSIBLE ACTION TO ADOPT ORDINANCE NO. 18-14, ESTABLISHING READINESS TO SERVE WATER SERVICE STANDBY ASSESSMENTS OR AVAILABILITY CHARGES FOR ALL OF THE RAINBOW MUNICIPAL WATER DISTRICT IMPROVEMENT DISTRICT NO. 1

President Brazier opened the public hearing at 1:40 p.m.

There was no public testimony. Ms. Washburn confirmed no written materials have been submitted on this matter.

Motion:

Approve the Ordinance No. 18-14 as stated.

Action: Approve, Moved by Director Hamilton, Seconded by Director Gasca.

Vote: Motion carried by unanimous roll call vote (summary: Ayes = 4).

Ayes: Director Brazier, Director Hamilton, Director Mack, Director Gasca.

Absent: Director Stewart.

President Brazier closed the public hearing at 1:42 p.m.

CONSENT CALENDAR ITEMS

***11. AUTHORIZATION TO ACCEPT ADP'S PROPOSAL FOR PROVIDING PAYROLL AND HUMAN RESOURCES INFORMATION SYSTEM**

This item was pulled from the Consent Calendar for discussion purposes.

(*) - Asterisk indicates a report is attached.

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- *12. AUTHORIZATION TO ACCEPT LAUTERBACH & AMEN, LLP'S PROPOSAL FOR ACTUARIAL SERVICES TO VALUE OTHER POST-EMPLOYMENT BENEFITS (OPEB) IN COMPLIANCE WITH GOVERNMENTAL ACCOUNTING STANDARDS BOARD STATEMENT NO. 75 (GASB 75)

- *13. DISCUSSION AND POSSIBLE ACTION TO APPROVE RESOLUTION NO. 18-10 — A RESOLUTION OF THE BOARD OF DIRECTORS OF RAINBOW MUNICIPAL WATER DISTRICT ESTABLISHING CLASSIFICATIONS AND MONTHLY PAY RANGES FOR DISTRICT EMPLOYEES AND THE GENERAL MANAGER EFFECTIVE JULY 14, 2018 THROUGH JUNE 30, 2019

Motion:

To accept Items #12 and #13 of the Consent Calendar and move Item #11 to Action Items.

Action: Approve, Moved by Director Hamilton, Seconded by Director Mack.

Vote: Motion carried by unanimous vote (summary: Ayes = 4).

Ayes: Director Brazier, Director Hamilton, Director Mack, Director Gasca.

Absent: Director Stewart.

Discussion went to Item #11A.

INFORMATION ITEMS

***14. CODE OF ETHICS POLICY REVIEW**

Director Hamilton expressed concern with utilizing the word “should” as opposed to “shall”. It was noted this comment would be passed on to Mr. Kennedy in preparation for bringing this item back to the Board for consideration and possible adoption at the July meeting.

Director Stewart joined the meeting at 1:52 p.m.

Discussion went to Item #15.

BOARD ACTION ITEMS

***11A. AUTHORIZATION TO ACCEPT ADP'S PROPOSAL FOR PROVIDING PAYROLL AND HUMAN RESOURCES INFORMATION SYSTEM**

(This item was removed from the Consent Calendar for discussion purposes.)

President Brazier stated after reading the RFP, she would like to know if ADP services would replace those services provided by Springbrook. Mrs. Martinez explained the human resources and payroll module services provided by Infor were more global international companies which was far more expensive than what RMWD needed. She stated the proposals being sought were for these two particular services at a lower cost. She noted two proposals were received and that ADP would be providing the same services as Springbrook along with additional services such as mandatory Federal and State Tax Reporting, W-2's, as well as provide a self-service portal for employees to access to pull prior check statements, adjust withholdings, etc. President Brazier

(*) - Asterisk indicates a report is attached.

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asked if the current one full time employee split between two employees would still be doing the same thing they were doing before. Mrs. Martinez noted payroll would still be processed in-house; however, there may be some time savings by not having to do tax reporting.

Motion:

Approve the proposal.

Action: Approve, Moved by Director Gasca, Seconded by Director Hamilton.

Vote: Motion carried by unanimous vote (summary: Ayes = 4).

Ayes: Director Brazier, Director Hamilton, Director Mack, Director Gasca.

Absent: Director Stewart.

Discussion went to Item #14.

***15. DISCUSSION AND POSSIBLE ACTION TO ADOPT RESOLUTION NO. 18-09 APPROVING FISCAL YEAR 2018-2019 BUDGET**

Mrs. Martinez gave a presentation on the budget noting some of the information may be repeated from the May 23, 2018 Joint Board and Budget and Finance Committee meeting. She pointed out all the adjustments made to the budget since that meeting.

Director Mack inquired as to whether the Project Manager position would be full time. Mrs. Martinez confirmed it would be full time with most of the salary and benefits being paid with capital reserves. President Brazier asked about utilizing the reserves for such. Mrs. Martinez provided greater detail as to how this position would be paid. Director Stewart pointed out management of capital improvements could always be put in an operating "bucket"; however, it can become very costly. He said he was in favor in adding the position funding it from the larger capital budget; thereby, most likely saving the District money.

Mr. Stitle added over the next several years rates will have to increase to yield reserves. He stressed this was not optional and there could be trouble if it is not done.

Motion:

Adoption of Resolution No. 18-09 approving fiscal year 2018-2019 budget.

Action: Approve, Moved by Director Gasca, Seconded by Director Stewart.

Vote: Motion carried by unanimous vote (summary: Ayes = 5).

Ayes: Director Brazier, Director Hamilton, Director Mack, Director Stewart, Director Gasca.

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***16. CONSIDER APPROVAL OF ORDINANCE NO. 18-15 REVISING ADOPTED RATES FOR RAINBOW MUNICIPAL WATER DISTRICT WASTEWATER SERVICE FEE FOR COMMERCIAL WITH IRRIGATION CUSTOMER CLASS ONLY, RECLASSIFY RATES UNIFORMLY TO THE SINGLE-FAMILY RATE STRUCTURE**

Mrs. Martinez recalled a special Board meeting was held in January to review the rate study which was ultimately resulted in the Board approving rate increases that included a change in rate structure for sewer. She explained this was done to allow for the fixed rates to be dictated going forward. She noted there was no real correlation of cost of service during winter month usage; therefore, that is where the change for sewer came about. She provided additional background information related to the rate structure change.

Discussion ensued regarding categorizing store front properties.

Motion:

To approve Option 1 – revising the wastewater rates for commercial with irrigation accounts only, for adoption on Ordinance 18-15.

Action: Approve, Moved by Director Hamilton, Seconded by Director Gasca.

Vote: Motion carried by unanimous roll call vote (summary: Ayes = 5).

Ayes: Director Brazier, Director Hamilton, Director Mack, Director Stewart, Director Gasca.

***17. DISCUSSION AND POSSIBLE ACTION TO APPROVE CONTRACT CHANGE ORDER FOR LIFT STATION NO. 1 REPLACEMENT PROJECT IN THE AMOUNT OF \$293,111**

Mr. Powers noted this project has been presented to the Board numerous times over the past several years. He explained why the funding mechanisms need to be restructured to meet the current demands on the sewer system without increasing the use of capital funds.

Directors Hamilton and Stewart asked whether the equalization basin would include Thoroughbred Lane. Mr. Powers confirmed it would. Discussion ensued.

Director Hamilton inquired as to the life expectancy for the lift station. Mr. Powers stated approximately 15-30 years. Discussion followed.

Director Gasca asked about the capacity threshold. Mr. Powers stated RMWD will be near capacity; however, as developments build in the District it will be required the District be notified to allow time for installing the necessary infrastructure for additional connections. Director Gasca recommended staff report back to the Board regarding how far RMWD is from reaching the threshold. Mr. Powers confirmed anything on the development horizon would be within the threshold.

Motion:

Approve Option 1 - Authorize staff to execute a change order with Kennedy/Jenks Consultants for a price not to exceed \$293,111.

Action: Approve, Moved by Director Hamilton, Seconded by Director Mack.

(*) - Asterisk indicates a report is attached.

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Vote: Motion carried by unanimous vote (summary: Ayes = 5).

Ayes: Director Brazier, Director Hamilton, Director Mack, Director Stewart, Director Gasca.

***18. DISCUSSION AND POSSIBLE ACTION TO AUTHORIZE GENERAL MANAGER TO EXECUTE GROUND LEASE AGREEMENT (CONTRACT 18-09) BETWEEN RAINBOW MUNICIPAL WATER DISTRICT AND PERRAULT CORPORATION**

Mr. Powers explained Perrault Corporation has been leasing the lower yard located at RMWD's main office for approximately \$6,000.00 per month for the last two years. He noted the agreement was up for renewal and how the new agreement would increase the lease costs by an amount based on the Consumer Price Index totaling \$6,384.00 per month with the same provisions including acquiring use permits from the County.

Director Hamilton inquired as to whether there was a bail out clause included in the contract should the District decide to sell the land. Legal Counsel confirmed the District has the option of cancelling the lease at any time.

President Brazier inquired as to how much land was being leased. Mr. Powers replied it was six acres.

Motion:

To authorize General Manager to execute Ground Lease Agreement (Contract 18-09) between Rainbow Municipal Water District and Perrault Corporation.

Action: Approve, Moved by Director Gasca, Seconded by Director Hamilton.

Vote: Motion carried by unanimous vote (summary: Ayes = 5).

Ayes: Director Brazier, Director Hamilton, Director Mack, Director Stewart, Director Gasca.

***19. DISCUSSION AND POSSIBLE ACTION TO ADOPT RESOLUTION NO. 18-11 TO ACCEPT THE GRANT DEED FOR THE PROPOSED SCHOOLHOUSE LIFT STATION PROPERTY**

Mr. Powers stated the Sewer Service Agreement was approved several months ago. He explained this item was to formalize the exchange.

Motion:

To adopt Resolution No. 18-11 to accept the grant deed for the proposed Schoolhouse Lift Station Property.

Action: Approve, Moved by Director Hamilton, Seconded by Director Gasca.

Vote: Motion carried by unanimous vote (summary: Ayes = 5).

Ayes: Director Brazier, Director Hamilton, Director Mack, Director Stewart, Director Gasca.

(*) - Asterisk indicates a report is attached.

20. DISCUSSION AND POSSIBLE ACTION TO ADOPT THE RECOMMENDATIONS IN THE STAFFING ANALYSIS FOR FISCAL YEAR 2018-2019

Mrs. Harp explained this item was for the Board to consider approving the information and proposed staffing analysis draft presented to them in previous months. She pointed out the essential recommendations were to add the part-time Human Resources Technician position, upgrade the Inspector position to Inspector II, add a Project Manager position in Engineering, and create a Customer Service Lead Supervisor position in the Finance Department. She mentioned the Board Action Letter includes the fiscal impact with the exception of the reduction of one head count in the Wastewater Department. She talked about the fiscal impact associated with each position. She confirmed all of the recommendations were reflected in the 2018-2019 Budget.

Motion:

Adopt Staff Recommendation #1 - Adopt the Recommendations in the Five-Year Staffing Analysis for the fiscal year 2018-2019.

Action: Approve, Moved by Director Stewart, Seconded by Director Hamilton.

Vote: Motion carried by unanimous vote (summary: Ayes = 5).

Ayes: Director Brazier, Director Hamilton, Director Mack, Director Stewart, Director Gasca.

21. CONSIDER ADOPTION OF STRATEGIC PLAN OBJECTIVES FOR FISCAL YEAR 2018-2019

Mrs. Gray explained the strategic plans objectives were put together with the budget approval. She explained a great deal has been accomplished since 2016. She presented the accomplishments reached in 2017-2018 as well as objectives for 2018-2019. She noted a quarterly review of the goals and objectives will be conducted during a joint staff and Board Member meeting.

Director Gasca expressed concern with the Board reviewing the goals and objectives being stipulated after they have already been slated as opposed to getting Board input prior to staff seeking approval. He suggested possibly starting with the workshop with the Board and staff as a means of changing the approval and goal setting processes as well as getting the plan updated going forward.

Motion:

To approve the Strategic Plan objectives for FY 2019 as provided.

Action: Approve, Moved by Director Gasca, Seconded by Director Stewart.

Vote: Motion carried by unanimous vote (summary: Ayes = 5).

Ayes: Director Brazier, Director Hamilton, Director Mack, Director Stewart, Director Gasca.

22. AUTHORIZATION TO ATTEND UPCOMING MEETINGS / CONFERENCES / SEMINARS

There were no requests submitted.

(*) - Asterisk indicates a report is attached.

***23. RECEIVE AND FILE INFORMATION AND FINANCIAL ITEMS**

- A. General Manager Comments**
 - 1. Meetings, Conferences and Seminar Calendar
- B. Communications**
 - 1. Staff Training Reports
- C. Operations Comments**
 - 1. Operations Report
- D. Engineering Comments**
 - 1. Engineering Report
- E. Customer Service and Meters Comments**
 - 1. Customer Service and Meters Report
- F. Human Resource & Safety Comments**
 - 1. Human Resources Report
- G. Finance Comments**
 - 1. Interim Financial Statement
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 - 6. Check Register
 - 7. Water Sales Summary
 - 8. RMWD Sewer Equivalent Dwelling Units (EDU's) Status

Motion:

To receive and file information and financial items.

Action: Approve, Moved by Director Hamilton, Seconded by Director Mack.

Vote: Motion carried by unanimous vote (summary: Ayes = 5).

Ayes: Director Brazier, Director Hamilton, Director Mack, Director Stewart, Director Gasca.

24. LIST OF SUGGESTED AGENDA ITEMS FOR THE NEXT REGULAR BOARD MEETING

It was noted an item for a vote on the CSDA Board of Directors, the Code of Ethics policy, and confirmation of a strategic plan workshop need to be on the next agenda.

25. ADJOURNMENT - To Tuesday, July 24, 2018 at 1:00 p.m.

The meeting was adjourned with a motion made by Director Brazier to a regular meeting on July 24, 2018 at 1:00 p.m.

The meeting was adjourned at 3:17 p.m.

Helene Brazier, Board President

Dawn M. Washburn, Board Secretary

(*) - Asterisk indicates a report is attached.



SUMMARY OF FORMAL BOARD OF DIRECTORS' MEETING JUNE 28, 2018

- 9-1. Monthly Treasurer's Report on Investments and Cash Flow.
The Board noted and filed the Treasurer's report.
- 9-2. Purchase of Water Authority Business Insurance.
The Board authorized the General Manager to purchase property insurance from Travelers Property Casualty Company of America in the amount of \$143,312, liability insurance from Allied World Assurance Company – CalMutuals JPRIMA in the amount of \$340,883, and workers' compensation insurance from Zenith Insurance Company – CalMutuals JPRIMA in the amount of \$291,620 for a total amount of \$775,815.
- 9-3. Amendment to Agreement for Special Services with Liebert Cassidy Whitmore to increase the contract limit by \$150,000 to a total of \$540,000.
The Board authorized the General Counsel to execute an amendment to the agreement for special labor-related legal services with Liebert Cassidy Whitmore to increase the contract limit by \$150,000 from \$390,000 to \$540,000.
- 9-4. Adopt the Water Authority's Rates and Charges for Calendar Year 2019.
The Board conducted the Public Hearing; adopted Ordinance No. 2018-02 an ordinance of the Board of Directors of the San Diego County Water Authority setting rates and charges for the delivery and supply of water, use of facilities, and provision of services; adopted Ordinance No. 2018-03 an ordinance of the Board of Directors of the San Diego County Water Authority modifying the Rate Stabilization Fund (RSF) requirements; adopted Resolution No. 2018-09 a resolution of the Board of Directors of the San Diego County Water Authority continuing the Standby Availability Charge; adopted Ordinance No. 2018-04 an ordinance of the Board of Directors of the San Diego County Water Authority amending and restating the System Capacity and Water Treatment Capacity Charges imposed by the Water Authority pursuant to Section 5.9 of the County Water Authority Act; and found the actions exempt from CEQA pursuant to Public Resources Code § 21080(b)(8) and authorize the General Manager to file a notice of exemption.
- 9-5. Amendment to Agreement for Legal Services with Van Ness Feldman to increase the contract limit by \$60,000 to a total of \$110,000.
The Board authorized the General Counsel to execute an amendment to the agreement for legal services with Van Ness Feldman related to the San Vicente Energy Storage Facility to increase the contract limit by \$60,000 from \$50,000 to \$110,000.



- 9-6. Professional services contracts for as-needed construction management support services.
The Board authorized the General Manager to award professional services contracts to Butier Engineering, Inc. for \$3 million; Louis Berger U.S., Inc. for \$3 million; and Vali Cooper & Associates, Inc. for \$2 million for as-needed construction management support services to support the Capital Improvement Program and Asset Management projects for five years.
- 9-7. Appointment and Confirmation of Directors Jerry Butkiewicz and Tim Smith to the Metropolitan Water District of Southern California Board of Directors.
The Board adopted Resolution No. 2018-10 approving the appointment of Jerry Butkiewicz and Tim Smith as representatives of the San Diego County Water Authority on the Board of Directors of the Metropolitan Water District of Southern California.
- 9-8. Employment of retired employee as Interim Director of Water Resources and exception of 180-day wait period.
The Board adopted Resolution No. 2018-11, a resolution of the Board of Directors of the San Diego County Water Authority appointing a retired annuitant pursuant to the exception to the 180-day wait period under Government Code sections 7522.56 and 21221(h).



TO: Rainbow Municipal Water District

FROM: Alfred Smith

DATE: July 24, 2018

RE: Attorney Report: Water Quality, Nuisance and Inverse Condemnation
Nuisance Claims
501668-0002

I. INTRODUCTION.

This attorney report provides an update on a recent court of appeal decision rejecting water quality claims brought by homeowners against multiple water districts. In *Williams v. Moulton Niguel Water District*, Fourth District Court of Appeal, Case Number G053002 (“Williams”), the homeowners sued the water districts for nuisance and inverse condemnation, asserting that water provided to their homes contained disinfectants that caused pinhole leaks in their plumbing.

In a published opinion, the Fourth District Court of Appeal rejected the homeowners’ claims, agreeing with the water districts’ argument that compliance with state and federal standards governing disinfectants in drinking water barred any claim for nuisance because the water districts’ conduct was authorized by regulation. It was undisputed that the water districts complied with applicable drinking water regulations.

The Court of Appeal also agreed that the homeowners could not pursue an inverse condemnation claim, because: (1) the water districts’ conduct did not disproportionately impact their property; and (2) compensation for the damage alleged would expand recovery beyond the traditional realm of inverse condemnation liability.

II. BACKGROUND.

In *Williams*, a group of homeowners brought a class action lawsuit against the Metropolitan Water District of Southern California, the Irvine Ranch Water District and the Moulton Niguel Water District . The homeowners alleged that the copper pipes in their homes were damaged due to the addition of chloramine to the drinking water supply. Chloramine is a common disinfectant added to drinking water supplies to protect human health. The water providers had previously obtained permits from state

drinking water regulators to add chloramines, which the districts used consistently since 1985. Furthermore, state and federal regulations set a maximum residual level for chloramines at 4.0 milligrams per liter. At no point did the water providers exceed this level in the drinking water provided to the homeowners.

III. COURT'S ANALYSIS.

A. Nuisance Claim.

California Civil Code section 3482 states: "Nothing which is done or maintained under the express authority of a statute can be deemed a nuisance." The term "statute," according to the *Williams* court, includes "regulations." Indeed, Civil Code section 3482 has been interpreted to mean that an act done under the express authority of a statute, regulation, permit, license, or other governmental approval cannot be a nuisance. Accordingly, the water districts argued that since they added the chemicals in accordance with state and federal regulations and obtained a permit from the California Department of Health Services, the districts were immune from nuisance claims.

Agreeing with the water districts, the court concluded that the regulations and permit expressly allow chloramines to be present in drinking water below a specified concentration. Since the federal and state Safe Drinking Water Acts authorize the creation of such drinking water quality regulations, the activity complained of was expressly authorized by statute. The operation of Civil Code section 3482 therefore barred the homeowners' claims because the presence or addition of chloramines at a certain level was expressly authorized by law.

B. Inverse Condemnation Claim.

The court rejected the homeowners' inverse condemnation claim finding the delivery of water that arguably damaged copper pipes did not amount to a taking of private property without just compensation. The court noted that prior precedent approving inverse condemnation liability for water damage involved a much different factual context -- such as where the damage was caused by flooding due to broken pipes or main bursts.

The court also rejected what it called the homeowners' "unusual" argument that they were singled out for being more susceptible to damage due to having copper pipes. The court stated: "Spreading the cost of public benefits to the public, and not focusing them on a single property owner, does not apply here because the plaintiffs were not singled out to bear a burden that, in fairness, should be borne by the public as a whole. Everyone, not just the plaintiffs, received the treated water."

The court found that, if any liability applied at all for the water delivered with chloramine, it would be more akin to a traditional product liability theory, not inverse condemnation. The court reasoned that, at most, the treated water the homeowners purchased arguably suffered from a design defect, or perhaps liability could be asserted based on a failure to warn of the water's effect on copper pipes, or perhaps liability could be established under a simple negligence theory.

The court explained, however, whether a tort theory of recovery on this or other potential bases of liability should be allowed is a decision for the Legislature. The "taken" or "damaged" clause of section 19 of the California Constitution has never "been extended to apply outside the realm of eminent domain or public works to impose a Constitution-based liability." The court accordingly concluded: "We decline to be the first court to allow such a free-ranging theory of tort liability under the guise of inverse condemnation."

IV. CONCLUSION.

The *Williams* case generated significant concern in the water community. *Amicus curiae* briefs were filed by the Association of California Water Agencies, League of California Cities, San Diego County Water Authority, Las Virgenes Municipal Water District, Upper San Gabriel Valley Municipal Water District, Municipal Water District of Orange County, Foothill Municipal Water District, and West Basin Municipal Water District.

The rejection of the homeowners' inverse condemnation claim, together with the application of Civil Code section 3482 to nuisance claims, provides needed clarity and serves as an important precedent to shield water districts from legal battles when the water provided meets applicable standards.

AES

**MINUTES OF THE BUDGET AND FINANCE COMMITTEE MEETING
OF THE RAINBOW MUNICIPAL WATER DISTRICT
JUNE 12, 2018**

1. **CALL TO ORDER:** The Budget & Finance Committee meeting of the Rainbow Municipal Water District was called to order by on June 12, 2018 by Chairperson Stitle in the Board Room of the District Office at 3707 Old Highway 395, Fallbrook, CA 92028 at 1:00 p.m. Chairperson Stitle presiding.

2. **PLEDGE OF ALLEGIANCE**

3. **ROLL CALL:**

Present: Member Stitle, Member Hensley, Member Moss, Member Gasca, Alternate Nelson,

Also Present: Alternate Martinez, Executive Assistant Washburn.

Absent: Member Ross, General Manager Kennedy.

One member of the public was present.

4. **SEATING OF ALTERNATES**

Mr. Stitle announced Mr. Flint would be seated as an alternate.

5. **ADDITIONS/DELETIONS/AMENDMENTS TO THE AGENDA (Government Code §54954.2)**

Mr. Gasca suggested an item be added to the agenda to discuss the strategic plan. Mr. Stitle agreed to add this item.

6. **PUBLIC COMMENT RELATING TO ITEMS NOT ON THE AGENDA (Limit 3 Minutes)**

There were no comments.

COMMITTEE ACTION ITEMS

7. **COMMITTEE MEMBER COMMENTS**

Ms. Moss inquired about the recent published proposed water use restrictions. Mrs. Martinez explained these restrictions would not go into effect until 2022. Ms. Washburn pointed out Mr. Kennedy included an article on this topic in the upcoming newsletter.

*8. **APPROVAL OF MINUTES**

A. May 8, 2018

Mr. Gasca pointed out in Item #12 it should be “23% above its forecasted gross revenue”.

Motion:

To approve the minutes as revised.

Action: Approve, Moved by Member Gasca, Seconded by Member Moss.

Vote: Motion carried by unanimous vote (summary: Ayes = 5).

Ayes: Member Stitle, Member Hensley, Member Moss, Member Gasca, Alternate Nelson.

9. FISCAL YEAR 2018-2019 BUDGET FINAL REVIEW

Mrs. Martinez noted the presentation being referenced today was the same one provided at the May joint Board and Committee meeting. Ms. Moss inquired about the automobile expenses in terms of Mr. Kennedy's vehicle being replaced and his current vehicle be assigned to the Engineering Department. Mrs. Martinez referred to the slide in the presentation where this was addressed as she explained how the decision was made. Discussion ensued regarding operating costs associated with the additional vehicle being incorporated into the budget.

10. HUMAN RESOURCES AND PAYROLL SERVICES REQUEST FOR PROPOSAL

Mr. Stitle referenced the proposals provided as handouts and how it was surprising one firm did not provide for immigration verifications. Mrs. Martinez pointed out based on the proposal submitted, it appeared attention was not given to the details provided in the request. It was noted several committee and staff members have experience with ADP and have been very satisfied with their services.

Mr. Hensley inquired as to the costs comparison having to do with a great deal of allocation being made to the Human Resources recruitment services.

Motion:

ADP be presented to the Board for consideration.

Action: Approve, Moved by Member Moss, Seconded by Member Hensley.

Vote: Motion carried by unanimous vote (summary: Ayes = 5).

Ayes: Member Stitle, Member Hensley, Member Moss, Member Gasca, Alternate Nelson.

11. GASB 75 RESULTS

Mrs. Martinez reference the proposals provided in the handouts noting how long each firm has been in business. She suggested the committee keep this component in mind when considering the consultants.

Mr. Nelson inquired as to the location of the consultant firms. Mrs. Martinez pointed out one of the firms is in San Diego and how those out of the local area would provide services electronically whenever possible.

Mrs. Martinez recommended either Jefferson Solutions, Inc. or Nyart would best meet the District's needs. Mr. Flint suggested selecting the lowest bidder since RMWD does not need a deep level of services.

Discussion ensued regarding post-retirement benefits, the ratio of RMWD employee participation, as well as what type of agencies these firms have provided services to in the past.

Ms. Moss stated she would prefer selecting Lauterbach Amen, LLP who was the lowest bidder. Mr. Nelson inquired as to why RMWD should not select Lauterbach Amen, LLP.

Motion:

To recommend the Board select Lauterbach Amen, LLP to provide RMWD with actuarial services.

Action: Approve, Moved by Member Moss, Seconded by Alternate Nelson.

Vote: Motion carried by unanimous vote (summary: Ayes = 5).

Ayes: Member Stitle, Member Hensley, Member Moss, Member Gasca, Alternate Nelson.

12. ABM INVESTMENT GRADE AUDIT REVIEW

Mr. Stitle talked about Flume, a product Mr. Kennedy shared information about at the Engineering and Operations Committee meeting. Discussion followed.

Mr. Kennedy mentioned ABM would be providing the District with multiple options. Discussion ensued regarding meters.

13. REVIEW THE FOLLOWING:

- A. Income Statement
- B. Balance Sheet
- C. Cash Flow
- D. Treasurer's Report

Mrs. Martinez reviewed the information provided in the reports provided. Discussions ensued.

Mr. Flint made an inquiry on the Treasurer's Report. Mrs. Martinez provided a response.

13A. DISCUSSION REGARDING STRATEGIC PLAN

Mr. Kennedy reviewed some of the financial objectives with the committee members.

Discussions ensued regarding the fleet, invoice processing, implementation of financial software, as well as cyber security.

Mr. Gasca encouraged the committee members to review the plan objectives provided as a handout and notify Mr. Kennedy or Mrs. Gray of any suggestions revisions. He also mentioned possibly considering updating the strategic plan itself.

14. LIST OF SUGGESTED AGENDA ITEMS FOR THE NEXT SCHEDULED BUDGET AND FINANCE COMMITTEE MEETING

It was noted an ABM presentation, AML update, and the strategic plan should be on the next committee agenda.

15. ADJOURNMENT

The meeting was adjourned with a motion made by Member Stitle.

The meeting adjourned at 2:50 p.m.

Harry Stitle, Committee Chairperson

Dawn M. Washburn, Board Secretary

**MINUTES OF THE COMMUNICATIONS AND CUSTOMER SERVICE
COMMITTEE MEETING
OF THE RAINBOW MUNICIPAL WATER DISTRICT
JUNE 7, 2018**

1. **CALL TO ORDER** – The Communications and Customer Service Committee Meeting of the Rainbow Municipal Water District on June 7, 2018 was called to order by Chairperson Daily at 1:31 p.m. in the Board Room of the District, 3707 Old Highway 395, Fallbrook, CA 92028. Chairperson Daily, presiding.

2. **PLEDGE OF ALLEGIANCE**

3. **ROLL CALL:**

Present: Member Daily, Member Kirby, Member Hamilton, Alternate Gray.

Also Present: General Manager Kennedy, Executive Assistant Washburn, Customer Service Representative De La Cerda.

No members of the public were present.

Discussion went to Item #13D.

4. **SEATING OF ALTERNATES**

Mr. Daily announced Mrs. Gray would be seated as an alternate.

5. **ADDITIONS/DELETIONS/AMENDMENTS TO THE AGENDA (Government Code §54954.2)**

Discussion went to Item #13.

6. **PUBLIC COMMENT RELATING TO ITEMS NOT ON THE AGENDA**

There were no comments.

COMMITTEE ACTION ITEMS

*7. **APPROVAL OF MINUTES**

A. May 3, 2018

Motion:

Approve the minutes as written.

Action: Approve, Moved by Alternate Gray, Seconded by Member Hamilton.

Vote: Motion carried by unanimous vote (summary: Ayes = 4).

Ayes: Member Daily, Member Kirby, Member Hamilton, Alternate Gray.

Discussion went to Item #8.

8. DISCUSSION REGARDING COMMENDATION FOR ELYSIAN KURNIK

Mr. Kennedy solicited the members for input on the draft commendation prepared on their behalf.

Motion:

To approve the commendation without revisions.

Action: Approve, Moved by Member Hamilton, Seconded by Alternate Gray.

Vote: Motion carried by unanimous vote (summary: Ayes = 4).

Ayes: Member Daily, Member Kirby, Member Hamilton, Alternate Gray.

Discussion went to Item #9.

9. DRAFT EXTENDED NEWSLETTER REVIEW

Mrs. Gray mentioned she had forward a draft to the committee members, but had not received any feedback. She pointed out the deadline for finalizing the newsletter was here; however, to allow for committee review, she preferred delaying the publication for a month and having the members submit any proposed changes to her electronically for tracking purposes.

Discussion went to Item #10.

10. DISCUSSION REGARDING VIDEO PRESENTATION

Mr. Kennedy noted RMWD had an agreement for the videographer for two videos with the history of the District being the first to include interviews with Bill Hitt, Russ Hatfield, and Rincon Band of Luiseno Indians Chairman Bo Mazzetti.

Mrs. Gray stated the interviews would be scheduled for the upcoming week.

Discussion ensued regarding the interviews being structured and how they will be conducted.

Discussion went to Item #11.

11. VINTAGE CARSHOW DEBRIEFING

Mr. Daily shared a customer suggestion that RMWD show its current and future financial positioning on the water bills.

It was noted there was more engagement from those visiting the booth, temperatures and venue arrangements were very nice. Discussion followed regarding the types of questions asked by the visitors and how there was value to RMWD being present at this event.

Mr. Hamilton recalled there being a recommendation that a general information card be created to hand out at these types of events.

Discussion went to Item #12.

12. THE VILLAGE NEWS SUBSCRIPTION UPDATE

It was confirmed a subscription has been purchased by RMWD.

Discussion returned to Item #13.

13. PUBLIC COMMUNICATIONS AND OUTREACH ITEMS

- A.** Topics
- B.** Strategic Plan Objectives
- C.** Calendar
- D.** Snipes Calendar
- E.** Customer Service Update

Mrs. Gray introduced Customer Service Representative Gina De La Cerda, noting she would be responsible for provide updates from RMWD Customer Service Department throughout the next 12 months due to the recent blending of customer service with communications. Mrs. De La Cerda briefed the committee on her work and educational experience.

Discussion ensued regarding formulating the messaging on the newly published proposed water use restrictions.

Discussion went to Item #7.

Discussion returned from Item #13.

Mr. Kennedy talked about addressing the new proposed water use laws in the June newsletter.

Discussion ensued regarding how the Customer Service could be provided more flexibility to assist customers including updating the Administrative Code policies to allow for such.

Discussion took place regarding the Snipes Calendar regarding information to include over the next couple of months.

Mrs. De La Cerda noted the change in weather has caused customers to call regarding their bill increases. Mrs. Gray offered to include something encouraging customers to check their irrigation systems.

Discussion went to Item #14.

14. REVIEW AND ANALYSIS OF RMWD RELATED MEDIA STORIES

Discussion ensued regarding media articles relative to RMWD.

Mr. Kennedy noted there was an article that may be of interest in the Voice of San Diego.

Discussion went to Item #15.

15. COMMITTEE MEMBER COMMENTS

There were no comments.

Discussion went to Item #16.

16. LIST OF SUGGESTED AGENDA ITEMS FOR THE NEXT SCHEDULED COMMUNICATIONS AND CUSTOMER SERVICE COMMITTEE MEETING

It was suggested an AMI update, the video presentation, and extended newsletter review be on the next committee agenda.

17. ADJOURNMENT

The meeting was adjourned to Thursday, July 12, 2018 at 3:30 p.m. with a motion made by Member Daily.

The meeting adjourned at 5:04 p.m.

Mike Daily, Committee Chairperson

Dawn M. Washburn, Board Secretary

BOARD OF DIRECTORS

July 24, 2018

SUBJECT

CONSIDER APPROVAL OF A PROFESSIONAL SERVICES AGREEMENT WITH ABM BUILDING SOLUTIONS, LLC FOR A DISTRICTWIDE METER REPLACEMENT AND WATER SERVICE UPGRADE PROJECT AND AUTHORIZE THE GENERAL MANAGER TO SIGN THE AGREEMENT ON THE DISTRICT'S BEHALF

DESCRIPTION

This Project Agreement establishes the framework for a Districtwide water meter replacement and service upgrade project that will reduce the amount of non-revenue water that is lost each year due to inaccurate water meters. The project will also upgrade and standardize each water service to include new meter boxes and customer shut off valves. The project is self-funded in that the cost of the project is guaranteed by ABM Building Solutions, LLC (ABM) to return additional revenues from the increased meter accuracy that will pay for the cost of the project.

BACKGROUND

In 2015 the District conducted our annual Water Audit using the American Water Works Association (AWWA) water audit software. This process compares the amount of water we purchase wholesale to the amount of water we sell through customer meters and then highlights the amount of non-revenue water (NRW) that was purchased but not sold. Non-revenue water is split into two main categories: Real Losses which are water that leaks from mains and other pipelines, and Apparent Losses which stem from meter inaccuracy, theft, and billing errors.

In our system the total amount of NRW amounted to about 7% of our total volume of water purchased. This is a large amount and is quite costly – at 18,000 acre feet per year purchased, 7% amounts to 1260 acre feet of water. With a wholesale volumetric rate of \$1305 (not including fixed charges), the total financial loss is approximately \$1.65 Million per year. This loss increases as water rates increase.

Staff evaluated whether most of this loss was due to real losses (leaks) or apparent losses (meter inaccuracies, etc). Were all the NRW due to leaks we would need to leak nearly 3.5 acre feet of water per day out of our system. When we consider that our really large leaks generally leak about an acre foot, our experience tells us that these huge volumes of water are not coming from leaks. We certainly have our share of leaks, but the total losses would be a small fraction of the 1260 AF observed.

In mid 2016 staff began discussions with ABM about doing some meter testing to quantify what we might be able to expect from a meter replacement program. We randomly selected 300 meters to test and over the next year went through the process of pulling these meters and having them tested. Most tests were conducted through a third party testing service, although some larger meters were testing using calibrated testing equipment in the field.

Once the individual meters were tested, the test results we then applied to the various consumption patterns that different customer classes use. A highly inaccurate meter for a low consumption customer class often has much lower actual NRW than a more accurate meter for large consumption accounts. ABM and District staff went through the data and calculated the overall average weighted system accuracy. This study revealed that we are likely only measuring about 93.6% of the water we sell to our customers. The detailed results of this analysis are included in Exhibit A of this memo.

This analysis indicates that of the 7% total NRW, fully 6.4% of that is being lost through inaccurate meters. ABM's calculations indicate that were we to increase the average meter accuracy up to 98%, our increased revenue based on our 2015 water rates would exceed \$900,000 per year. We selected the 98% accuracy rate as that is the minimum mandatory accuracy per AWWA guidelines. New meters nearly all register very near 100% accuracy so our returns are expected to be closer to \$1.3 Million. For the rest of the cost benefit studies we have used the 98% accuracy value for conservatism.

POLICY/STRATEGIC PLAN KEY FOCUS AREA

Key Focus Area One: Water Resources – it is critical to accurately measure water consumption to provide appropriate signals to users about their water consumption and encourage efficient use of water

Key Focus Area Two: Asset Management – we need to maintain our water services in good condition so that we can provide reliable service to our customers and effectively meter the water sold

Key Focus Area Four: Fiscal Responsibility – Accurate measurement of water sold is a key part in reducing Non-Revenue Water which will decrease losses dramatically

BOARD OPTIONS/FISCAL IMPACTS

Once the meter accuracy studies demonstrated clearly that there was a significant loss being suffered each year due to inaccurate meters, the question then turned to how to correct the problem. The simple answer is to just go out and start replacing meters. While this sounds simple, it is far from it. With nearly 8000 service connections, the magnitude of the project is quite significant. Our meter services staff is fully engaged dealing with day to day customer service and metering issues, not to mention the rapid growth we are experiencing right now. Consider that it took a full year to remove and test 300 meters using the “spare time” of the meter crews. To use internal staff to tackle 8000 accounts would take many years – all the while we are losing revenue.

After considerable review, staff has concluded that there is no cost-effective way to perform this work using only in-house resources. We also lack capacity in terms project management staffing to simply contract out the labor for the project.

Public Private Partnership Approach to Project

ABM has offered an alternative. This alternative has been presented in concept to our Engineering and Finance Committees several times over the last two years, as well as to the full Board of Directors. Here are the basic concepts of the ABM proposal:

- ABM would manage the entire project which would include:
 - o Staffing a project management team
 - o Handling procurement of all meters and associated parts
 - o Contracting the labor with a District approved vendor to install the meters and upgrade the water services
 - o Configure the data on meter replacements to District specifications and transmit that data to the District's utility billing system to ensure smooth transitions
 - o Handle any warranty claims for damages caused by the contractor's work

- ABM would guarantee the accuracy of the meters for as long as the meter vendor guarantees the meter accuracy
- Should the meter accuracy fall below 98%, ABM would pay the District the difference in expected and actual revenue, thus taking a good deal of the risk of meter inaccuracy – at least for the short term.
- ABM will pay for the project and lease the new meters back to the District over a specified term with an option for the District to buy down the lease at any time during the lease period. There will be zero residual at the end of the lease and all assets will be capitalized as District assets. There are several options to consider, but the recommended alternative is a 7-year lease period.

This concept has several benefits. First, and perhaps foremost, is that it provides the resources to get our water services upgraded as quickly as possible. We expect the whole project to take under one year to complete. Since we are losing over \$1 Million per year, every year we wait to do this work is a million dollars lost. Second, it provides a project management team to run the project, which we do not possess in house. This project will require a great deal of contractor and vendor coordination to ensure that the project proceeds smoothly. District staff will have their hands full just dealing with our end of the billing data updates – we simply do not have the internal resources needed to complete this sort of project.

Another significant benefit will be a much higher level of standardization of our water service assemblies. Staff has worked with the Engineering Committee on what a standard service assembly should look like and we have created a new set of standards for the installation of water meters. As many Board members are aware, we have a wide variety of installation types that have been installed over the years, some of which are well below what we would accept now. Our new standard also includes a customer shut off valve just downstream of the meter which will allow customers to shut off their water without having to use the curb stop which is difficult to operate without special tools and if broken can cause big problems.

The final benefit is that this leasing program will allow us to use the extra revenue generated each year to pay the costs associated with the project over time, thus leaving our capital reserves available for other high priority projects such as pipeline replacements and pump stations upgrades. ABM will realize a certain amount of profit as part of the agreement but they will also be providing services to accomplish a project that we do not have the resources to perform in house.

High Pressure Areas

Staff had also identified a need to deal with the nearly 1000 services that are in high pressure areas and have a District owned pressure regulator ahead of the meter that is intended to protect the meter. These regulators fail regularly and cause breaks in customer piping. We had requested that ABM include a regulator relocation into the scope of this project but it damage the ROI on the project to the point where ABM has suggested that we handle that effort separate from their contract. Staff is working on alternatives now and will have recommendations on how to address this issue at the next Board meeting.

Project Scope Alternatives

At one of our Engineering and Operations Committee meetings there was a suggestion to try to improve the ROI of the project by limiting the meter replacement to just the larger meters that are expected to have a higher ROI than the smaller meters. The concept here is that there are some meters that while inaccurate to a low degree would not deliver enough in terms of increased revenue to offset the cost of meter replacement. ABM did this evaluation and produced a limited scope project concept for consideration. This scope would replace only the 1” and larger meters which represent the bulk of our consumption. While this limited scope project did lower the overall cost of the project, the total reduction was somewhat limited – from about \$6.1 M to about \$5.4 M. While this is a considerable amount of money, the end result would be that the upgrades to the service assemblies – including the customer shut off valve – would not occur. In the long run, the upgrades to the water service assemblies has considerable benefits to the District so staff recommends the full scope project.

Project Costs

As of the writing of this Board memo there is still some final discussions about the scope underway. In particular, based on feedback from the Engineering and Operations Committee we are working on some alternatives for how to manage the roughly 1000 District owned pressure regulators in the system. We expect to have those discussions concluded by the time of the Board meeting so there may be some slight changes in the final numbers at the Board meeting.

For the full project scope (7,735 meters), the cost to implement is \$6,106,026. Details on the scope of work are included in the Investment Grade Audit Report attached to this memo. The table below is a high-level summary of the project financials:

ECM #	Measure Description	Cost to Implement	Annual O&M Savings	Annual \$ Starting Revenue Enhancement	Simple Payback Years
1	Districtwide Replacement of Water Meters	\$6,106,026	\$180,000	\$904,563	5.63

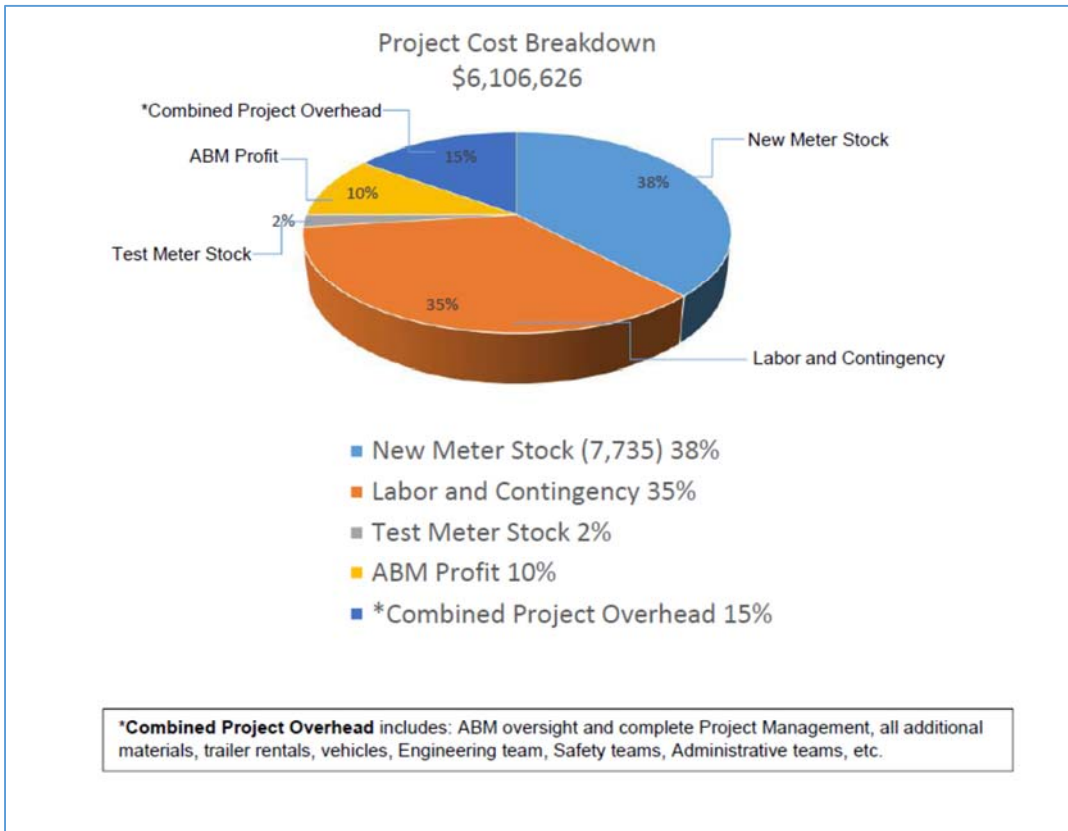
As this table indicates, the project is expected to have a simple payback on costs of at maximum 5.6 years. The estimates used to develop this forecast are detailed in the Investment Grade Audit Report and are very conservative. Staff projects that the actual returns will be much higher than this forecast. Conservatism in the forecast is created by the following:

- The financial returns are based on our 2017 water rates. We had a rate increase in 2018 that will improve the return significantly.
- The forecasted meter performance in the financial return model uses some of the warranty terms of the meter manufacturer which forecast much faster performance degradation than is expected based on our long experience with positive displacement water meters. The model starts at 98% and holds at that level for only two years in the larger meters and five years in the smaller meters, after which the model has the meters decline in performance fairly rapidly. In fact, should the meters perform more poorly than the model predicts they would be eligible for warranty replacement. The Neptune T-10 meter is a reliable meter with a long history in its current design and we expect performance to greatly exceed the performance forecast used in the financial model.
- The financial model uses a 98% accuracy level rather than 100% accuracy as the starting point for conservatism. In fact, we expect nearly all meters to start at the 100% level which will have a forecasted return of about \$1.3 Million per year rather than \$904,563 as shown in the model. This performance would reduce the simple payback to just over 4.5 years.
- We excluded labor costs saved from normal routine meter replacements and while that has a monetary value we have other system maintenance needs will benefit from this project. We have not included that in the annual return but the value is estimated at approximately \$260,000 per year.
- This model includes costs of approximately \$100,000 per year in the first three years for measurement and verification, which we could choose to forego if desired. Staff will calculate our overall water balance (amount of water purchased vs amount registered in customer meters) and if that is in an acceptable range we can forego the cost of M&V.
- The financial models assume a 3.75% rate on the lease which is also conservative. We are working on a rate lock now and expect that rate to be 50 basis points lower at least which will improve project financials. The actual rate lock should occur before the Board meeting so updated numbers should be available at that time.

With all forecasts, these values are based on our estimates refined over the last two years working on this project. The numbers will certainly not be exact to what is presented in this Agenda Item, but by using as many measures of conservatism as possible, we expect that the risk of project underperformance is very low. Further, through the contract with ABM, if for some reason the project does underperform, ABM is bound by contract to make up the difference. Like all companies, ABM does not like taking losses. ABM's conservatism in the financial model ensures that our performance is nearly certain to be better than what is presented here.

The chart below shows the project breakdown. As this chart indicates, the parts and labor are the driving factor in the project cost. The labor costs are based on a special Prevailing Wage Rate determination that was provided specifically for this project from the Department of Industrial Relations. ABM received competitive proposals on the project and the preferred vendor is Concord Utility Systems, a very experienced local firm that we have a great deal of experience with. Were we to contract this work out ourselves, the cost of parts and labor would not change substantially as the labor costs are fixed by prevailing wage laws.

As the chart shows, the project overhead is what it will take for ABM to conduct the project. As noted above, we do not have the internal resources to manage this project, so these costs could not be avoided if we tried to do this in house. The small slice of test meter stock is for meters that we will have in our inventory that we will use to replace meters that we test in the measurement and verification process. Finally, ABM has a 10% profit built in to the project.



The project will be financed through a Tax-Exempt Lease with a zero residual at the end of the term of the lease. All assets procured through this process will become fixed assets so the project will increase our total asset valuation by the total cost of the project. Legal counsel has reviewed the arrangement and has found that it is in full compliance with the District's Ordinance 95-1.

Since there will be no up front costs to the District, no additional appropriations will be required for the lease payments at this time. Depending on project schedule, it is possible that no payments will be required until Fiscal Year 19-20. However, as part of the approval process, the Board is agreeing to make the lease payments – we will need to appropriate the funds either in the early 2019 midyear adjustment and/or in subsequent fiscal years.

Contract Considerations

There are two main contracts associated with this agreement, the Project Agreement and the Meter Accuracy Guarantee. The Project Agreement sets the general terms and costs of the project and the Meter Accuracy Guarantee spells out the details of how ABM will pay the District any difference in forecasted project performance and actual project performance should the project fail to deliver as forecasted. These contracts are attached to this Board memo.

Legal counsel was still reviewing these contracts as of the writing of this Board memo so there may be some changes in certain contract terms from the versions attached to this memo.

ENVIRONMENTAL

This project is Categorically Exempt from the California Environmental Quality Act under Section 15301(d) which exempts reconstruction of existing facilities.

STAFF RECOMMENDATION

Staff proposes several options for Board consideration today:

1. Authorize staff to move forward with the meter replacement project, authorize the General Manager to execute the Project Agreement and Meter Accuracy Guarantee contracts, and direct staff to bring forward budget appropriations in the early 2019 mid-year budget adjustments and in future years to fund the lease payments.
2. Provide input to staff on alterations to the project and direct staff to bring the project back at a future Board meeting for consideration.
3. Reject the project outright and direct staff to identify other alternatives for meter replacement


Tom Kennedy
General Manager

July 24, 2018

EXHIBIT A

Testing of Existing Meters

As water meters age, their accuracy drops off, resulting in lost revenues to the Water District. Replacing inaccurate meters with newer, more efficient meters will result in reduced maintenance and operating costs, as well as potential increased revenues. The first step in determining the savings and revenue potential is to test a sample of the existing installed meter population to determine the baseline accuracy.

Baseline meter accuracy was determined by testing a random sample of meters currently in service. Sample size was determined using statistical calculations based on the meter population. A total of 333 meters were tested by Rainbow MWD. The breakdown of tested meters by meter size is as follows:

Meter Size	Quantity
5/8 inch	4
3/4 inch	91
1 inch	81
1-1/2 inch	62
2 inch	62
3 inch	22
4 inch	11

Each meter was tested per AWWA guidelines at multiple flow rates representing low, medium, and high flow scenarios. The accuracy at each flow rate was then weighted by the AWWA recommended ratio of 15% low flow, 70% medium flow, and 15% high flow. The individual flow accuracies were then added together to determine the weighted accuracy of each individual meter. The sample set was then sorted by meter size and the results averaged to determine an average tested accuracy per meter size. The average tested accuracy by meter size is listed in the table below:

	Average Tested Accuracy
5/8 inch	90.5%
3/4 inch	95.2%
1 inch	92.2%
1-1/2 inch	91.5%
2 inch	94.4%
3 inch	97.0%
4 inch	97.8%

The overall weighted system accuracy was calculated by weighing the individual tested meter accuracies by the individual meter consumption for the entire meter population (by meter size), and adding up the individual weighted accuracies.

Meter Size	Annual Consumption (HCF)	Percent of Total Consumption
5/8 inch	33,598	0.5%
3/4 inch	728,100	10.9%
1 inch	1,993,667	29.8%
1-1/2 inch	1,190,678	17.8%
2 inch	2,024,542	30.2%
3 inch	397,503	5.9%
4 inch	312,466	4.7%
6 inch	13,158	0.2%

The overall weighted system accuracy was calculated to be 93.6%

Potential Revenue Enhancement Through Water Loss Reduction

Based upon the data in the tables above, the potential revenue enhancement will primarily come from the 1-inch, 1-1/2 inch, and 2-inch meter replacements. For purposes of this analysis, guaranteed accuracy of 98% was used.

To obtain the projected annual revenue for meter replacement, ABM utilized 2016/2017 consumption data provided by Rainbow MWD. The data was scrubbed to remove duplicate entries, as well as closed accounts. Once the data was scrubbed, the baseline consumption was then increased by the meter accuracy increase (98% minus overall weighted system accuracy of 93.6%) for the entire population to determine the post project consumption increase. Note that any meter size population that tested greater than 98% accuracy was not used to calculate potential revenue enhancement. The increased consumption was then multiplied by the 2017 water rates to obtain the post project potential revenue enhancement.

The results show that Rainbow MWD could realize an annual potential revenue enhancement of \$904,563.00 by implementing the meter replacement project.

EXHIBIT B



Board of Directors
Rainbow Municipal Water District
3707 Old Highway 395
Fallbrook, CA 92028

Investment Grade Audit Report
July 24, 2018

Presented by:
ABM Building Services, LLC
San Diego, CA

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Executive Summary

ABM Building Services (ABM) is pleased to provide this Investment Grade Audit (IGA) Report to the Rainbow Municipal Water District (RMWD). The purpose of this IGA is to identify energy and operational savings opportunities at the project sites, provide program costs to implement the recommended Energy Conservation Measures (ECMs) and other Non-Revenue Water (NRW) measures and present the overall cost and consumption savings of implementing these measures under a two-phase program approach. ABM has structured our proposed 2 PHASE programmatic approach to provide RMWD the greatest overall benefit, minimize the District's administrative, legal compliance and financial risks, while providing the District background analysis to insure it has the flexibility to consider the financial safeguards from design, implementation and technology risk. The current Phase 1 addresses Non-Revenue Water (NRW) due to meter inaccuracy revenue losses. A future Phase 2 can address the District's aging pumping infrastructure and associated energy efficiency of the entire District's electrical infrastructure over the next 20 years. Phase 2 can be developed in conjunction with the District's Administrative Headquarters relocation planning to ensure that the District's new Headquarters are designed with the most efficient equipment available to minimize future energy expenditures.

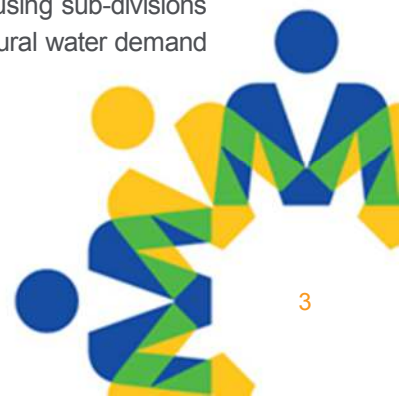
We would like to extend our sincerest appreciation to the District's Management and Staff, from the field service teams, operations, engineering, warehousing, meter teams, accounting and front office personnel. Their assistance was invaluable and provided ABM with the greatest levels of support during our analysis and development of this program.

Water Infrastructure

During ABM's analysis of the District's water infrastructure, we reviewed the history of the formation of the District, established from a series of mergers of smaller rural water districts serving a largely geographically rural footprint with extremely varied topography. ABM reviewed the District's water conveyance infrastructure, from reservoirs, tanks, telemetry, pipeline routes, pump stations, pressure reducing stations and retail water delivery via individual metered customer accounts. Additionally, ABM reviewed the District's sewer infrastructure, pump and lift stations and sewer conveyance to the neighboring city's wastewater division facilities.

ABM also analyzed the District's historical water sales and historical energy utility expenditures. In accordance with the Energy-Water Nexus implications for the District and the recent drought's impacts to the District's consumer water demand, ABM sought to analyze the District's infrastructure's energy consumption versus its water sales. In that process, we learned that the District's water meters were good candidates for upgrading with both ultrasonic high accuracy metering technology as well as conventional metering technology.

While analyzing the District's pumping facilities, ABM learned that some of the historical agricultural area water clients of the District's service territory have ceased operations. The North County's historically significant avocado industry is receding in part due to foreign imports of avocados from Mexico, Central and South America. Additionally, there has been a slow increase in residential water customers, and several housing sub-divisions that are projected for development over the coming years. This migration from large agricultural water demand



clients to residential clients is expected to spread annualized retail water sales more in line with residential consumption versus the historical seasonal water demands of agricultural water clients. Due to the rural topography of the District's service territory, there is also delivery zones that have high pressure delivery to residential and commercial customers. This project is also aimed at helping the District to minimize the risk of loss to its clients due to the high-pressure delivery of water.

Electrical Energy Consumption

The District uses +/- 2.2 million kWh of electrical energy annually.

ABM reviewed electrical utility data and confirmed that the District's largest energy consuming sites are water pumping and sewer pumping facilities, notwithstanding the District's Headquarters and Corporate Yard facilities. As part of our analysis, we reviewed the potential of the inclusion of renewable and alternative energy generation including solar photovoltaics systems and in-line micro-hydro generation.

Several District and energy market factors currently exist that restrain ABM from suggesting these alternative and renewable energy generation technologies during Phase 1, however, they may be considered under our Phase 2 approach.

Our analysis is comprised from detailed site surveys, staff and user interviews, utility bill analysis, operating cost analysis, and evaluation of ECMs or other upgrades to improve the overall operations of the District, lower operational costs and reduce carbon footprint.

The following list of potential energy and operational savings opportunities is proposed for the Phase 1 implementation scope of work:

Replacement of Water Meters to include:

- District-wide replacement of meters
- Continued use of existing AMR system, pending Itron/SDG&E pilot program results

Early in the analysis, it became evident that a few of the potential ECMs were not feasible due to several factors, including the recent Peak Rate Change and the pending move of the District's Administrative Headquarters and that further inclusion in this current evaluation would not be prudent. Therefore, the following ECMs will not be included in the financial results as part of this IGA and are recommended as part of a future Phase 2:

- In Line Generation / Battery Storage
- Lighting and HVAC retrofits & EV Charging Stations & Solar installation at Administration due to planned relocation

Detailed evaluation revealed that the following NRW measure is both currently technically and financially viable and provides for the improved water usage baseline in support of the District's data integrity requirements in compliance with SB 555 and is recommended for Phase 1 implementation:



- District-wide replacement of existing water meters with a combination of high accuracy ultrasonic technology and new conventional meters with field-proven accuracy, reliability, and long-lasting performance at a wide effective flow range, and where necessary higher pressure capable water meters using the existing AMR technology pending the outcome of the Itron / SDG&E pilot program, which may lead to additional implementation of that program across the remainder of the District, where feasible.

Our analysis shows that overall the recommended districtwide replacement of all water meters will deliver potential revenue enhancement and operational savings starting in excess of **\$1,084,563** annually, and cumulative cash flow savings for the district over the life cycle (20 years) of the project in excess of **\$6,000,000** (after investment) as well as provide the District a cash flow stream to help implement Phase 2 upgrades with technologies which will improve infrastructure, reduce losses and operational efficiencies throughout Rainbow Municipal Water District for decades to come.

While the Financial Analysis section of this Report provides all the details regarding costs and savings of this program, the following is a summary of project outcomes:

Option #1 Full Scope (7,735 meters)

Option #1 Project Scope and Simple Payback Summary

ECM #	Measure Description	Cost to Implement	Annual O&M Savings	Annual \$ Starting Revenue Enhancement	Simple Payback Years
1	Districtwide Replacement of Water Meters	\$6,106,026	\$180,000	\$904,563	5.63

Option #1 Annual Revenue Enhancement from Meter Replacement

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
\$904,563	\$904,563	\$843,344	\$782,065	\$720,786	\$595,635	\$532,099	\$468,342	\$404,228	\$362,816
Year 11	Year 12	Year 13	Year 14	Year 15	Year 16	Year 17	Year 18	Year 19	Year 20
\$362,816	\$362,816	\$362,816	\$362,816	\$362,816	\$362,816	\$362,816	\$362,816	\$362,816	\$362,816



Option #2 Reduced Scope (5,857 meters)

Option #1 Project Scope and Simple Payback Summary

ECM #	Measure Description	Cost to Implement	Annual O&M Savings	Annual \$ Starting Revenue Enhancement	Simple Payback Years
1	Replacement of 1", 1.5", 2" and all HP Water Meters ONLY	\$5,395,075	\$180,000	\$834,079	5.32

Option #2 Annual Revenue Enhancement from Meter Replacement

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
\$834,079	\$834,079	\$772,859	\$711,580	\$650,302	\$518,444	\$471,644	\$424,625	\$377,952	\$362,816
Year 11	Year 12	Year 13	Year 14	Year 15	Year 16	Year 17	Year 18	Year 19	Year 20
\$362,816	\$362,816	\$362,816	\$362,816	\$362,816	\$362,816	\$362,816	\$362,816	\$362,816	\$362,816

In summary, this IGA Report provides both a technical and a financial solution for Rainbow Municipal Water District which:

- Requires no capital budget outlay
- Is completely self-funding through enhanced revenue and operational savings
- Provides significant cumulative general fund relief through increased cash flow revenues
- Can be financially guaranteed through an annual Measurement & Verification program to reduce any financial risk to the District

Sincerely,



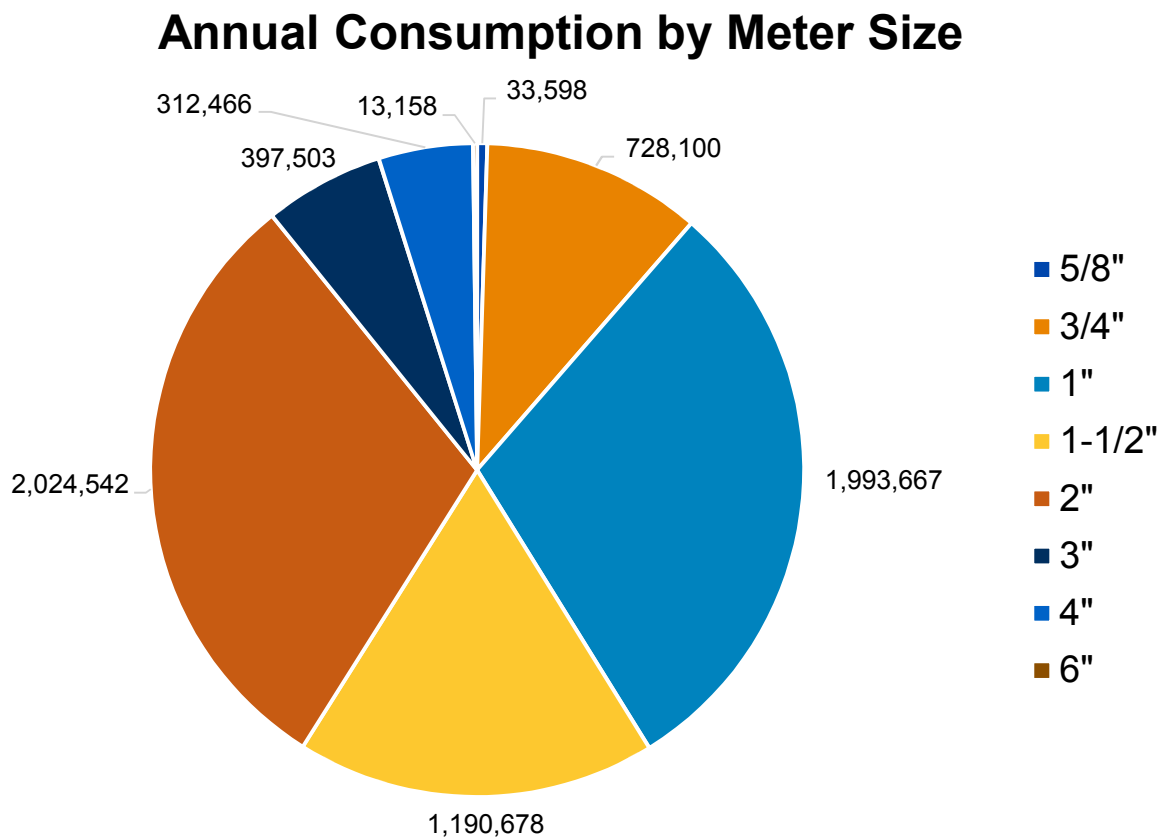
Harvey Katzen
 ABM Building Services LLC
 San Diego, CA 92123
 Direct: (858) 775-5484
 Email: harvey.katzen@abm.com



Baseline Water Data

Baseline water consumption was obtained from the customer billing database supplied by RMWD for the calendar year July 2016 to June 2017. The database was scrubbed for duplicate entries and dormant accounts. After scrubbing, the database represented monthly consumption for 7,735 accounts. The total water consumption for the 7,735 accounts is 6,693,712 HCF.

The following graph represents the water consumption by meter size:



ECM 1.0 Districtwide Replacement of Water Meters

ABM evaluated converting all of Rainbow Municipal Water District's 7,735 meters from Automated Meter Reading (AMR) to Advanced Metering Infrastructure (AMI). The evaluation included the following components:

- Testing of existing meters
- Replacement of meters as identified by RMWD
- Conversion of existing AMR system to AMI (pending the outcome of the Itron / SDG&E pilot program)

Testing of Existing Meters

As water meters age, their accuracy drops off, resulting in lost revenues to the Water District. Replacing inaccurate meters with newer, more efficient meters will result in reduced maintenance and operating costs, as well as potential increased revenues. The first step in determining the savings and revenue potential was to test a sample of the existing installed meter population to determine the baseline accuracy.

Baseline meter accuracy was determined by testing a random sample of meters currently in service. Sample size was determined using statistical calculations based on the meter population. A total of 333 meters were tested by Rainbow MWD. The breakdown of tested meters by meter size is as follows:

Meter Size	Quantity
5/8 inch	4
3/4 inch	91
1 inch	81
1-1/2 inch	62
2 inch	62
3 inch	22
4 inch	11

Each meter was tested per AWWA guidelines at multiple flow rates representing low, medium, and high flow scenarios. The accuracy at each flow rate was then weighted by the AWWA recommended ratio of **15% low flow, 70% medium flow, and 15% high flow**. The individual flow accuracies were then added together to determine the weighted accuracy of each individual meter. The sample set was then sorted by meter size and the results averaged to determine an average tested accuracy per meter size. The average tested accuracy by meter size is listed in the table below:



The overall weighted system accuracy was calculated by weighing the individual tested meter accuracies by the individual meter consumption for the entire meter population (by meter size) and adding up the individual weighted accuracies.

Meter Size	Average Tested Accuracy
5/8 inch	90.5%
3/4 inch	95.2%
1 inch	92.2%
1-1/2 inch	91.5%
2 inch	94.4%
3 inch	97.0%
4 inch	97.8%

The overall weighted system accuracy was calculated to be 93.6%

Meter Size	Annual Consumption (HCF)	Percent of Total Consumption
5/8 inch	33,598	0.5%
3/4 inch	728,100	10.9%
1 inch	1,993,667	29.8%
1-1/2 inch	1,190,678	17.8%
2 inch	2,024,542	30.2%
3 inch	397,503	5.9%
4 inch	312,466	4.7%
6 inch	13,158	0.2%

Potential Revenue Enhancement Through Water Loss Reduction

Based upon the data in the tables above, the potential revenue enhancement will primarily come from the 1-inch, 1-1/2 inch, and 2-inch meter replacements. For purposes of this analysis, new meter accuracy of 98% was used.



To obtain the projected annual revenue for meter replacement, ABM utilized 2016/2017 consumption data provided by Rainbow MWD. The data was scrubbed to remove duplicate entries, as well as closed accounts. Once the data was scrubbed, the baseline consumption was then increased by the meter accuracy increase (100% minus overall weighted system accuracy of 93.6%) for the entire population to determine the post project consumption increase. Note that any meter size population that tested greater than 100% accuracy was not used to calculate potential revenue enhancement. The increased consumption was then multiplied by the 2017 water rates to obtain the post project potential revenue enhancement.

The results show that Rainbow MWD could realize an annual potential revenue enhancement starting at \$904,563 (at 98% accuracy; \$1,321,107 at 100% accuracy) by implementing the district-wide meter replacement project.

Replacement of Meters as Identified by RMWD

ABM recommends utilizing both solid state ultrasonic metering technology for all high pressure zones in conjunction with the newest conventional metering technology for the RMWD meter replacement project. Solid state technologies provide benefits over traditional mechanical metering devices including:

- No moving parts to wear out
- Particles do not cause meters to stick or stop
- Reduced pressure losses
- No maintenance required
- Improved low flow accuracy
- Better high flow durability
- Long term accuracy and life expectancy



Full Scope Option – Districtwide Meter Replacement

ABM is recommending a combination of ultrasonic and magnetic metering technologies as indicated in the following table:

Quantity	Description
219	5/8" PD and Ultrasonic (Neptune/Kamstrup)
2,567	3/4" PD and Ultrasonic (Neptune/Kamstrup)
3,966	1" PD and Ultrasonic (Neptune/Kamstrup)
513	1 1/2" PD and Ultrasonic (Neptune/Kamstrup)
421	2" PD and Ultrasonic (Neptune/Kamstrup)
28/14	3" HP Turbine Meter/Kamstrup Ultrasonic
6	Siemens Mag Flow
1	Siemens Mag Flow
7,735	Total Meters Considered for Replacement

See the cash flow and financial analysis for this option on page 40.



Kamstrup Ultrasonic Meter



Neptune T-10 Meter



Siemens Mag Flow Meter

Reduced Scope Option (Partial Meter Replacement)

As mentioned above, for this reduced scope option the potential revenue enhancement will primarily come from the 1-inch, 1-1/2" and 2" meter replacements. For purposes of this analysis, in addition to a complete Districtwide meter replacement, ABM was asked to also consider a reduced scope option which will:



- Capture only those meters which provide for the majority of revenue enhancement.
- Also capture those meters which fall into the High Pressure zone areas, regardless of size,

The reduced scope option would include the following meters:

Quantity	Description
3,966	1" PD and Ultrasonic (Neptune/Kamstrup)
513	1 1/2" PD and Ultrasonic (Neptune/Kamstrup)
421	2" PD and Ultrasonic (Neptune/Kamstrup)
957	Kamstrup Meters in High Pressure Zones
5,857	Total Meters Considered for Replacement

See the cash flow and financial analysis for this option on page 41.



Kamstrup Ultrasonic Meter



Neptune T-10 Meter



Competitive RFP – Scope of Work

ABM released a competitive Request for Proposal on February 20, 2018 to three qualified installation vendors based on the complete Scope of Work, Clarifications, Meter Box Design Specifications, and Prevailing Wage Determination that follow:



February 20, 2018

ABM Technical Solutions
3585 Corporate Court
San Diego, CA 92123

Request for Proposal – Meter Technician Installation Services

Dear Sir/Madam:

Your company's services has been reviewed and is being considered for inclusion in our project with Rainbow Municipal Water District. The project is expected to begin within the next few months, and is anticipated to span approximately 6 –12 months, please insure that your quotation is fixed for the duration of the project, as this project is a fixed price structure and no price increases can be authorized.

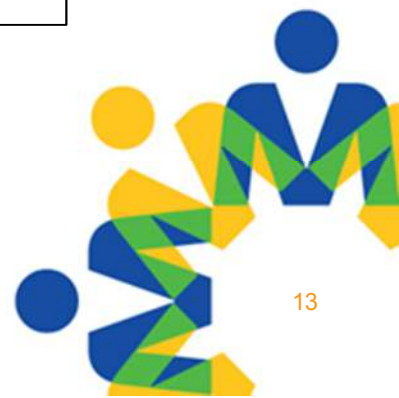
Your pricing structure must take into account the attached prevailing wage determination issued by the State of California for this project as shown in Attachment 1, and the attached unitary counts of the various meter types, sizes, and manufacturers included in the units table in Attachment 2, and the District's installation and specifications drawings shown in Attachment 3. Your firm's proposal must also include the standard workmanship warranty of a minimum of 1 year as required by the Rainbow Municipal Water District.

We will be arranging a mandatory project tour of the various areas of the Water District in the coming weeks. That tour will take approximately 6 hours.

Please provide full turnkey pricing no later than close of business on 3/07/2018. If this deadline cannot be met, please contact us immediately to discuss your company's quotation timeframes.

Please address your proposal to: Ken Hoving, General Manager
ABM San Diego Branch
3585 Corporate Court
San Diego, CA 92123
ken.hoving@abm.com

with a Cc to my email address: doug.moyles@abm.com





Request for Proposal – Rainbow Municipal Water District
Water Meter replacement project

Project Location is the Rainbow Municipal Water District, located in Northern San Diego County. A centralized logistics, receiving and coordination jobsite will be located at:

ABM – Technical Solutions Project Team
C/O Rainbow Municipal Water District
3707 Old Highway 395
Fallbrook, CA 92028

Meters, isolation valves, pressure reducing valves and valve boxes will be provided to the successful installation contractor(s).

Contractor shall provide all other associated parts, equipment, vehicles, safety management, labor, logistics, project management, accounting, billing system coordination, real-time installation reporting, weekly coordination meetings with ABM's Project Manager and certified payroll documentation. If your firm identifies any additional items, processes or deliverables that would make this project successful, please include them in your proposal.

Best regards,

Doug Moyles
Project Developer – West
ABM Technical Solutions
3585 Corporate Court
San Diego, CA 92123



Meter Count by Manufacturer

Manufacturer	Meter Size	Quantity
Neptune	5/8"	135
Neptune	3/4"	1,715
Neptune	1"	2,673
Neptune	1-1/2"	323
Neptune	2"	290
Neptune	3"	28
<u>Kamstrup</u>	5/8"	84
<u>Kamstrup</u>	3/4"	852
<u>Kamstrup</u>	1"	1,293
<u>Kamstrup</u>	1-1/2"	190
<u>Kamstrup</u>	2"	131
<u>Kamstrup</u>	3"	14
<u>Kamstrup</u>	4"	6
<u>Kamstrup</u>	6"	1
TOTAL		7,735

- Attachment 1 – CAL DLR Labor Wage Determination
- Attachment 2 – Meter counts, by size, type and manufacturer
- Attachment 3 – District drawings for installation methodology and specification





Additional Clarifications for Bid Consideration

Methodology and Logistics

Rainbow Water District, located in rural North San Diego County, covers a wide geographic area with many customers on acreage, some on dirt roads, and difficult terrain. The district is made up of nine distinct service zones with various access challenges. This is not a suburban development project. Consideration of these logistical challenges, which will impact productivity and schedule, must be taken into account as no provision will be made for extras regarding the contractor's lack of understanding of existing conditions.

Additionally, it is anticipated that the contractor will follow a schedule, laid out by the water district that follows a pattern of billing cycles/service, working systematically behind water district personnel. This may require movement from zone to zone so work must be performed daily and in coordination with this predetermined pattern. Although you will have ample advanced notice, you should plan for the work to be in any given zone with potential disruption and need to return/backtrack on occasion. Every effort will be made to avoid unproductive rescheduling; however, you should plan for a portion of your work to fall within these conditions.

Based on logistically challenging conditions and unforeseen circumstances, you should plan for a contingency factor of up to 10% of the meters not being in replacement condition at the time of scheduling. These exceptions will need to be documented and communicated to an ABM responsible person on a daily basis, so that we can secure a determination from the district as to our recovery plan. These meters may be skipped or rescheduled at the sole discretion of the district and/or ABM.

Upon locating each meter, you will need to vacuum out the work area to provide adequate access for safe working conditions. Remove the existing meter and accessories and install the appropriate new configuration per the attached drawings and schedule. Then return existing conditions back to original as best as is practicable.

Every care should be taken to avoid damage to private and public property including existing fencing, landscaping, roads, etc. Damage remediation shall be the responsibility of the installing contractor. Daily communication is required regarding reporting of any unexpected damage and remediation planning.

Your installation plan and methodology is subject to prior approval by the district and should include provision for proper pipe cleaning techniques related to potable water, proper purge of the system, and applicable sanitation along with any other applicable AWWA industry standards.





Safety

Safety is of high importance to ABM. We require a daily safety briefing of each crew and real time reporting of any issues to all parties. Safety stand downs may occur if work conditions become deemed unsafe. In this case, a recovery plan will need to be determined and agreed to by all parties prior to restarting work as well as an on-site meeting to inform all working personnel of specific risks and mitigation planning. This is the responsibility of all team members. No additional compensation will be provided should a safety stand down occur. Please plan accordingly.

Understand that this is a rural work environment and as such consideration should be taken regarding animals such as snakes and rodents, unlevelled terrain, slip and fall hazards, and potential for road hazards. A flagman or pilot vehicle is a requirement of this project and is your responsibility to provide adequate risk mitigation. Any and all safety issues and incidents which occur must be reported in real time and documented in your daily reports to ABM.

Quality Control

A quality installation is the goal of everyone involved in the project. It is anticipated that most installs will be straight forward and per plan. Should you encounter difficult or unsafe working conditions, communication and a recovery plan are of utmost importance. You should plan for your responsible person to perform a QC inspection of each meter install including data entry, accounting migration and a mandatory sign off in writing by ABM. ABM personnel will also be performing QC and spot checks throughout the project. Water district personnel may also be involved in the QC process. ABM expects that everyone involved in the project will make QC a priority.

Inventory Control and Responsibilities

Since ABM is providing the meters, isolation valves, pressure reducing valves, and valve boxes to your firm, a system of inventory control, check out, and installation verification will be implemented. It will be your responsibility to follow this procedure. All other parts and accessories required to perform the installs per the attached drawings are the responsibility of the installing contractor.

Consideration of the condition of the existing piping in either direction, up to five (5) feet from the anticipated point of connection is the responsibility of the installing contractor. Failed pipe which cannot be attached to beyond five (5) feet in either direction will be addressed by the water district once identified by the contractor.

Communication / Reporting Structure

Communication by your firm's responsible Project Management person, designated by the contractor, to the ABM Project Manager is expected as necessary to perform the





project in a productive way. Daily reports will be turned in at the end of each day at the job site trailer or at the install location if feasible and prearranged. All communication will flow to and from the installing contractor and ABM. Any communication with the client will be restricted to ABM personnel. Direction from the client will be communicated in a timely manner. Clarification may become necessary from time to time and is expected in a timely manner as well, never beyond a 24-hour window of time.

A completion checklist will be used to communicate progress and or delays. Also, a pre-install checklist will be used to control any meters deemed to be excessively difficult to complete (in order to track the total quantity and determine what conditions prohibit immediate install)

Progress Billing / SOV Review and Approval Process

Due to the duration of the project, an agreed upon schedule of values will be set in advance and reviewed monthly, prior to progress billing submission. It is anticipated that this process takes place five (5) working days prior to the official submission of a monthly progress bill. That date is the 20th of each month. This allows for review and correction by both parties to ensure accuracy. Progress billing is subject to approval by ABM, in advance, each month throughout the entire project. A 5% retention will apply. Payment is subject to contractual terms defined in the final approved contract.

Prevailing Wage

This project is subject to prevailing wage and all of its implied requirements. A wage determination has been secured and provided for your assistance. This wage determination is a guide as it applies to only one class of installer. You should consider your entire labor mix and plan for all necessary work at the existing prevailing wage for the area, per the schedule duration, and for each labor class you anticipate using. It is your responsibility to understand and bid the project accordingly and per your expertise. Certified payroll will be required and ABM assumes no liability for your firm's prevailing wage obligations.

Project Duration

Although we are projecting a project duration of a year or less, we have not yet set the schedule. The final schedule will be worked out after the award of contracts. Please use your experience and crew size as a guide to cover any anticipated increases you may face.





Responsible Person

You will be required to designate a responsible person for the duration of the project. This person will be the designated interface with our ABM Project Manager. As such, they need to be available for the duration of the project.

Insurance and Bonding

All necessary insurance should be included in you bid. It is also anticipated that a performance and payment bond will be required. Please include in your bid as well.

Bid Requirements and Selection Process

All bids will be reviewed and accessed based on thoroughness and accuracy as well as price. Other considerations will include but are not limited to qualifications, licenses, references, and ability to staff and manage the project, etc. Please include all appropriate documentation but limit or exclude marketing materials as they will not influence the buying criteria. ABM reserves the right to select and or disqualify any RFP response at its sole discretion for any reason. Your efforts to be detailed and complete are appreciated.



State of California
Department of Industrial Relations
Office of the Director – Research Unit



P.O. Box 420603
San Francisco, CA 94142-0603
Phone: (415) 703-4774
Fax: (415) 703-4771

FAX TRANSMISSION

Urgent Action Needed Please Call To Discuss As You Requested For Your Information

DATE: November 17, 2017

TO: Tom Kennedy

COMPANY: Rainbow Municipal Water District

FAX: 760-728-2575

NUMBER OF PAGES (including this cover page): 3

FROM: Justin Lobo, Research Analyst JL

SUBJECT: Special Prevailing Wage Determination for Advanced Metering Infrastructure (AMI) project
Project: Rainbow Municipal Water District Advanced Metering Infrastructure (AMI) Project
County: San Diego

MESSAGE

Mr. Kennedy,

In response to a request received from the Rainbow Municipal Water District on November 6, 2017, we have enclosed the Director's Special Prevailing Wage Determination S-2017-9 for the aforementioned project within San Diego County. Please note that this determination applies only to the project for which it was requested. This determination is being issued based upon information provided which indicates that the contract for this project has not been let or signed. If the contract is not signed and work is not scheduled to begin within twelve (12) months, please contact the Office of the Director-Research Unit for updated special determinations.

In the absence of a special prevailing wage determination, the awarding body should refer to the Director's General Prevailing Wage Determinations. In addition, please note that any extension or renewal of this contract will require the issuance of either a new special prevailing wage determination or the use of the general prevailing wage determinations in effect on the date the contract is extended or renewed.

If you have further questions regarding prevailing wage, please contact The Office of the Director - Research Unit at (415) 703-4774. You may also visit our website at <http://www.dir.ca.gov/oprl/DPreWageDetermination.htm> to obtain current prevailing wage information.

**PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR
OF INDUSTRIAL RELATIONS PURSUANT TO CALIFORNIA LABOR CODE
PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773, & 1773.1**

Issue Date: November 17, 2017 **Determination:** S-2017-9
Craft: Meter Technician **Reference:** 61-47-4

Project: This prevailing wage determination is being issued pursuant to a request received on November 6, 2017 from the Rainbow Municipal Water District for an AMI project in San Diego County. This wage determination applies only to the project for which it was requested. If this contract is modified or extended, a new determination will be required.

Wage Rates:

<u>Classification(s)</u>	<u>Basic Straight-Time Hourly Rate</u>
Meter Technician Level I (0-6 Months)*	\$23.80*
Meter Technician Level I (After 6 Months)*	\$25.93*

Employer Payments: (Labor Code Section 1773.1)

Meter Technician Level I (0-6 Months)

Health & Welfare	\$2.62 per hour worked
Pension	\$1.43 per hour worked
Vacation/Holiday	\$0.92 per hour worked

Meter Technician Level I (After 6 Months)

Health & Welfare	\$2.62 per hour worked
Pension	\$1.56 per hour worked
Vacation/Holiday*	\$1.00 per hour worked

* Applies to employees with 0-4 years of service with the company. Vacation amounts after 4 years are listed below.

5 years	\$1.10	6 years	\$1.30	7-11 years	\$1.50
12 years	\$1.60	13 years	\$1.70	14 years	\$1.80
15 years	\$1.89	16-20 years	\$1.99	21 years	\$2.09
22 years	\$2.19	23 years	\$2.29	24 years	\$2.39
25 years	\$2.49	26 years	\$2.59	27-29 years	\$2.69
30-31 years	\$2.79	32+ years	\$2.99		

Straight Time hours:

Eight (8) hours per day, five (5) consecutive days, Monday through Friday, consisting of forty (40) hours per week.

Overtime:

One and one-half times (1½X) the basic straight-time hourly rate is paid for all daily overtime hours and all hours worked on Saturdays and Sundays. Double (2X) the basic-straight time hourly rate is paid for all hours worked on Holidays and all hours in excess of twelve (12) hours in a day.

Recognized Holidays:

New Year's Day, Martin Luther King Day, President's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, Day after Thanksgiving, Christmas Day and one (1) of the following days as selected by the employee: Easter, Cesar Chavez Day, Columbus Day, Christmas Eve and New Year's Eve. In addition, new employees shall receive one (1) floating holiday, two (2) floating holidays after 6 months of service with the company.

(Continued)



Determination S-2017-9

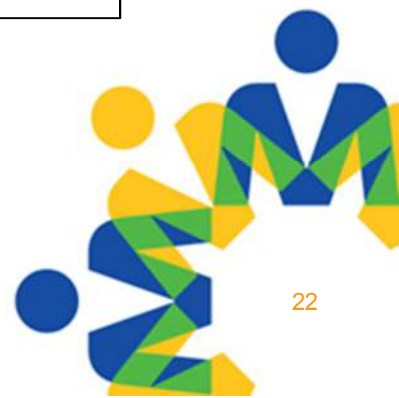
Page 2 of 2

Travel and Subsistence:

In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. Travel and/or subsistence requirements for each craft, classification or type of worker may be obtained from the Prevailing Wage Unit at (415) 703-4774.

* Based on length of service with the employer.

* The rates are in effect throughout the duration of the project.



MATERIAL LIST

- FORGED STEEL HALF-COUPING, THREADED, CLASS 3000, WELDED TO PIPE PER W-5 (C.M.I.P. PIPE) OR DOUBLE STRAP, STAINLESS STEEL TAPPING COLLAR (PVC OR DUCTILE IRON)
- BRASS CORP STOP
- BRASS MALE/COPPER ADAPTER
- TYPE "C" COPPER TUBING
- 45° COPPER ELL
- BRASS SERVICE STOP, 8-11 W INSTALLED FOR LEFT HAND OPERATION PER RWMD SPEC. 15087 2.03
- BRASS METER TALS WITH GASKETS
- WATER METER SUPPLIED BY DISTRICT
- BRASS BALL VALVE
- HDPE PLASTIC METER BOX AND COVER, USE 20"X30" BOX (BLACK)
- STATE APPROVED REDUCED PRESSURE BACKFLOW PREVENTION DEVICE
- BRONZE BALL VALVE, CLASS 125
- 6" BASE OF 3/4" ROOK
- 90° METALLIC ELBOW (COPPER OR BRASS)
- BRASS UNION
- METALLIC PIPE (COPPER OR BRASS)
- SADIRFICIAL ANODE REFER TO CP-18
- REDUCER BUSHING

TYPICAL CONSTRUCTION NOTES:

- USE SILVER SOLDER FOR COPPER PIPE JOINTS.
- MORTAR COUPLING AND MALE THREADS OF CORP STOP AFTER CONNECTING TO A MORTAR - COATED STEEL PIPE.
- APPLY BITUMASTIC COMPOUND TO COUPLING AND MALE THREADS OF CORP STOP AFTER CONNECTING TO A TAP / WRAPPED STEEL PIPE.
- PIPE THREADS SHALL BE CLEAN, SHARP, AND WRAPPED WITH A PIPE THREAD SEAL TAP.
- WHERE METER BOX IS LOCATED IN CONCRETE OR ASPHALT TRAFFIC AREAL, CONTACT DISTRICT FOR AN APPROVED CONCRETE METER BOX.
- ON 1-1/2" & 2" METERS (WHICH ARE FLANGED), PROVIDE THREADED COMPANION FLANGES, 150-LB.
- ALL BRASS FITTINGS TO BE DOMESTIC PRODUCTS.
- WRAP BURIED COPPER WITH 10 ML CALPURO TAPE OR POLYETHYLENE ENCASMENT.
- METER TO BACKFLOW - ANY DISTANCE GREATER THAN 3' NEEDS APPROVAL FROM ENGINEER.
- AS APPROVED BY DISTRICT, DOUBLE CHECK TO BE INSTALLED BELOW GRADE IN METER BOX.

RAINBOW MUNICIPAL WATER DISTRICT

APPROVED: *[Signature]* RCE # 8418R EXP 09/30/2019 REVISION APPROVED DATE

REDUCED 5/8" TO 3/4" WATER SERVICE INSTALLATION

METER REPLACEMENT NO. **01**

FEBRUARY 2018

MATERIAL LIST

- FORGED STEEL HALF-COUPING, THREADED, CLASS 3000, WELDED TO PIPE PER W-5 (C.M.I.P. PIPE) OR DOUBLE STRAP, STAINLESS STEEL TAPPING COLLAR (PVC OR DUCTILE IRON)
- BRASS CORP STOP
- BRASS MALE/COPPER ADAPTER
- TYPE "C" COPPER TUBING
- 45° COPPER ELL
- BRASS SERVICE STOP, 8-11 W INSTALLED FOR LEFT HAND OPERATION PER RWMD SPEC. 15087 2.03
- BRASS METER TALS WITH GASKETS
- WATER METER SUPPLIED BY DISTRICT
- BRASS BALL VALVE
- HDPE PLASTIC METER BOX AND COVER, USE 20"X30" BOX (BLACK)
- STATE APPROVED REDUCED PRESSURE BACKFLOW PREVENTION DEVICE
- BRONZE BALL VALVE, CLASS 125
- 6" BASE OF 3/4" ROOK
- 90° METALLIC ELBOW (COPPER OR BRASS)
- BRASS UNION
- METALLIC PIPE (COPPER OR BRASS)
- SADIRFICIAL ANODE REFER TO CP-18
- REDUCER BUSHING

TYPICAL CONSTRUCTION NOTES:

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- MORTAR COUPLING AND MALE THREADS OF CORP STOP AFTER CONNECTING TO A MORTAR - COATED STEEL PIPE.
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- ALL BRASS FITTINGS TO BE DOMESTIC PRODUCTS.
- WRAP BURIED COPPER WITH 10 ML CALPURO TAPE OR POLYETHYLENE ENCASMENT.
- METER TO BACKFLOW - ANY DISTANCE GREATER THAN 3' NEEDS APPROVAL FROM ENGINEER.
- AS APPROVED BY DISTRICT, DOUBLE CHECK TO BE INSTALLED BELOW GRADE IN METER BOX.

RAINBOW MUNICIPAL WATER DISTRICT

APPROVED: *[Signature]* RCE # 8418R EXP 09/30/2019 REVISION APPROVED DATE

REDUCED 5/8" TO 3/4" HIGH PRESSURE WATER SERVICE INSTALLATION

METER REPLACEMENT NO. **02**

FEBRUARY 2018

MATERIAL LIST

- FORGED STEEL HALF-COUPING, THREADED, CLASS 3000, WELDED TO PIPE PER W-5 (C.M.I.P. PIPE) OR DOUBLE STRAP, STAINLESS STEEL TAPPING COLLAR (PVC OR DUCTILE IRON)
- BRASS CORP STOP
- BRASS MALE/COPPER ADAPTER
- TYPE "C" COPPER TUBING
- 45° COPPER ELL
- BRASS SERVICE STOP, 8-11 W INSTALLED FOR LEFT HAND OPERATION PER RWMD SPEC. 15087 2.03
- BRASS METER TALS WITH GASKETS
- WATER METER SUPPLIED BY DISTRICT
- BRASS BALL VALVE
- HDPE PLASTIC METER BOX AND COVER, USE 20"X30" BOX (BLACK)
- STATE APPROVED REDUCED PRESSURE BACKFLOW PREVENTION DEVICE
- BRONZE BALL VALVE, CLASS 125
- 6" BASE OF 3/4" ROOK
- 90° METALLIC ELBOW (COPPER OR BRASS)
- BRASS UNION
- METALLIC PIPE (COPPER OR BRASS)
- SADIRFICIAL ANODE REFER TO CP-18
- REDUCER BUSHING

TYPICAL CONSTRUCTION NOTES:

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- MORTAR COUPLING AND MALE THREADS OF CORP STOP AFTER CONNECTING TO A MORTAR - COATED STEEL PIPE.
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RAINBOW MUNICIPAL WATER DISTRICT

APPROVED: *[Signature]* RCE # 8418R EXP 09/30/2019 REVISION APPROVED DATE

REDUCED 5/8" TO 3/4" WATER SERVICE INSTALLATION WITH BACKFLOW DEVICE

METER REPLACEMENT NO. **03**

FEBRUARY 2018

MATERIAL LIST

- FORGED STEEL HALF-COUPING, THREADED, CLASS 3000, WELDED TO PIPE PER W-5 (C.M.I.P. PIPE) OR DOUBLE STRAP, STAINLESS STEEL TAPPING COLLAR (PVC OR DUCTILE IRON)
- BRASS CORP STOP
- BRASS MALE/COPPER ADAPTER
- TYPE "C" COPPER TUBING
- 45° COPPER ELL
- BRASS SERVICE STOP, 8-11 W INSTALLED FOR LEFT HAND OPERATION PER RWMD SPEC. 15087 2.03
- BRASS METER TALS WITH GASKETS
- WATER METER SUPPLIED BY DISTRICT
- BRASS BALL VALVE
- HDPE PLASTIC METER BOX AND COVER, USE 20"X30" BOX (BLACK)
- STATE APPROVED REDUCED PRESSURE BACKFLOW PREVENTION DEVICE
- BRONZE BALL VALVE, CLASS 125
- 6" BASE OF 3/4" ROOK
- 90° METALLIC ELBOW (COPPER OR BRASS)
- BRASS UNION
- METALLIC PIPE (COPPER OR BRASS)
- SADIRFICIAL ANODE REFER TO CP-18
- REDUCER BUSHING

TYPICAL CONSTRUCTION NOTES:

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RAINBOW MUNICIPAL WATER DISTRICT

APPROVED: *[Signature]* RCE # 8418R EXP 09/30/2019 REVISION APPROVED DATE

REDUCED 5/8" TO 3/4" HIGH PRESSURE WATER SERVICE INSTALLATION WITH BACKFLOW DEVICE

METER REPLACEMENT NO. **04**

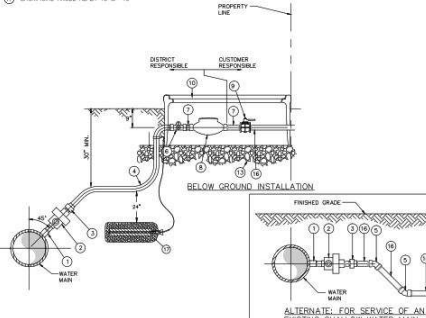
FEBRUARY 2018

MATERIAL LIST

- FORGED STEEL HALF-COUPLING, THREADED, CLASS 3000 WELDED TO PIPE PER M-3 (CONAC PIPE) OR DOUBLE STRAP, STAINLESS STEEL, TAPPING COLLAR (PVC OR DUCTILE IRON)
- BRASS COPR STOP
- BRASS MALE/COPPER ADAPTER
- TYPE "K" COPPER TUBING
- 45° COPPER ELL
- BRASS SERVICE STOP, 8-11 W INSTALLED FOR LEFT HAND OPERATION PER RWHD SPEC. 15057.2.03
- BRASS METER TALS WITH GASKETS
- WATER METER SUPPLIED BY DISTRICT
- BRASS BALL VALVE
- HEPE PLASTIC METER BOX AND COVER, USE 26"x39" BOX (BLACK)
- STATE APPROVED REDUCED PRESSURE BACKFLOW PREVENTION DEVICE
- BRONZE BALL VALVE, CLASS 125
- 4" BASE OF 3/4" ROOF
- 90° METALLIC ELBOW (COPPER OR BRASS)
- BRASS UNION
- METALLIC PIPE (COPPER OR BRASS)
- SACRIFICAL ANODE REFER TO CP-16

TYPICAL CONSTRUCTION NOTES:

- USE SILVER SOLDER FOR COPPER PIPE JOINTS.
- WORTAR COUPLING AND MALE THREADS OF COPR STOP AFTER CONNECTING TO A WORTAR - COATED STEEL PIPE.
- APPLY EPDMASTIC COMPOUND TO COUPLING AND MALE THREADS OF COPR STOP AFTER CONNECTING TO A TAR / WRAPPED STEEL PIPE.
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RAINBOW MUNICIPAL WATER DISTRICT

APPROVED: *[Signature]*
RCE # 84198 EXP.09/30/2019
REVISION APPROVED DATE

TYPICAL 1" TO 2" WATER SERVICE INSTALLATION

METER REPLACEMENT NO. **05**

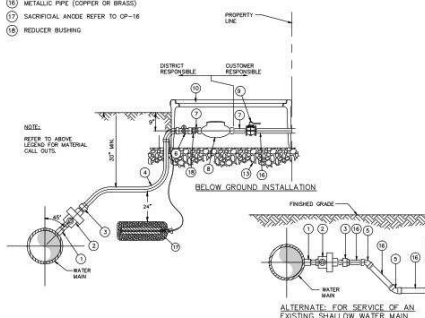
FEBRUARY 2018

MATERIAL LIST

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- WATER METER SUPPLIED BY DISTRICT
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- 4" BASE OF 3/4" ROOF
- 90° METALLIC ELBOW (COPPER OR BRASS)
- BRASS UNION
- METALLIC PIPE (COPPER OR BRASS)
- SACRIFICAL ANODE REFER TO CP-16
- REDUCER BUSHING

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RAINBOW MUNICIPAL WATER DISTRICT

APPROVED: *[Signature]*
RCE # 84198 EXP.09/30/2019
REVISION APPROVED DATE

REDUCED 1" TO 2" WATER SERVICE INSTALLATION

METER REPLACEMENT NO. **06**

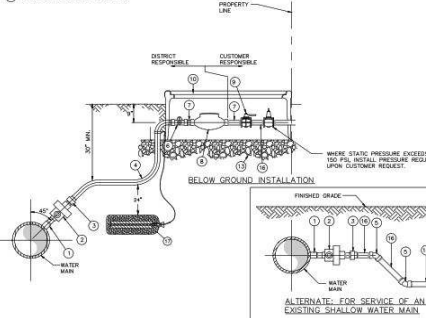
FEBRUARY 2018

MATERIAL LIST

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- WATER METER SUPPLIED BY DISTRICT
- BRASS BALL VALVE
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- 4" BASE OF 3/4" ROOF
- 90° METALLIC ELBOW (COPPER OR BRASS)
- BRASS UNION
- METALLIC PIPE (COPPER OR BRASS)
- SACRIFICAL ANODE REFER TO CP-16

TYPICAL CONSTRUCTION NOTES:

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RAINBOW MUNICIPAL WATER DISTRICT

APPROVED: *[Signature]*
RCE # 84198 EXP.09/30/2019
REVISION APPROVED DATE

TYPICAL 1" TO 2" HIGH PRESSURE WATER SERVICE INSTALLATION

METER REPLACEMENT NO. **07**

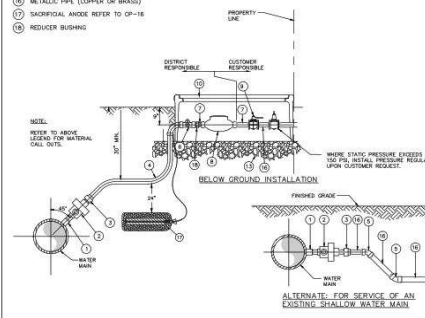
FEBRUARY 2018

MATERIAL LIST

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- BRASS METER TALS WITH GASKETS
- WATER METER SUPPLIED BY DISTRICT
- BRASS BALL VALVE
- HEPE PLASTIC METER BOX AND COVER, USE 26"x39" BOX (BLACK)
- STATE APPROVED REDUCED PRESSURE BACKFLOW PREVENTION DEVICE
- BRONZE BALL VALVE, CLASS 125
- 4" BASE OF 3/4" ROOF
- 90° METALLIC ELBOW (COPPER OR BRASS)
- BRASS UNION
- METALLIC PIPE (COPPER OR BRASS)
- SACRIFICAL ANODE REFER TO CP-16
- REDUCER BUSHING

TYPICAL CONSTRUCTION NOTES:

- USE SILVER SOLDER FOR COPPER PIPE JOINTS.
- WORTAR COUPLING AND MALE THREADS OF COPR STOP AFTER CONNECTING TO A WORTAR - COATED STEEL PIPE.
- APPLY EPDMASTIC COMPOUND TO COUPLING AND MALE THREADS OF COPR STOP AFTER CONNECTING TO A TAR / WRAPPED STEEL PIPE.
- PIPE THREADS SHALL BE CLEAN, SHARP, AND WRAPPED WITH A PIPE THREAD SEAL TAPE.
- WHERE METER BOX IS LOCATED IN CONCRETE OR ASPHALT TRAFFIC AREAS, CONTACT DISTRICT FOR AN APPROVED CONCRETE METER BOX.
- ON 1-1/2" & 2" METERS (WHICH ARE FLANGED), PROVIDE THREADED COMPANION FLANGES, 100-LB.
- ALL BRASS FITTINGS TO BE DOMESTIC PRODUCTS.
- WRAP BURED COPPER WITH 10 MIL CALPUO TAPE OR POLYETHYLENE ENCASEMENT.
- METER TO BACKFLOW - ANY DISTANCE GREATER THAN 3' NEEDS APPROVAL FROM ENGINEER.
- AS APPROVED BY DISTRICT, DOUBLE DECK TO BE INSTALLED BELOW GRADE IN METER BOX.



RAINBOW MUNICIPAL WATER DISTRICT

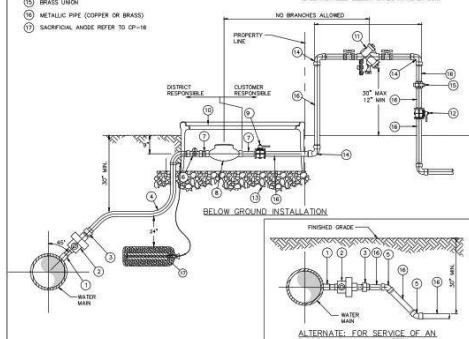
APPROVED: *[Signature]*
RCE # 84198 EXP.09/30/2019
REVISION APPROVED DATE

REDUCED 1" TO 2" HIGH PRESSURE WATER SERVICE INSTALLATION

METER REPLACEMENT NO. **08**

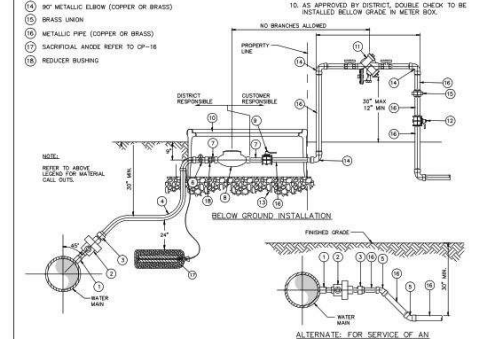
FEBRUARY 2018

MATERIAL LIST	TYPICAL CONSTRUCTION NOTES:
<ol style="list-style-type: none"> FORGED STEEL HALF-COUPLING, THREADED, CLASS 3000, WELDED TO PIPE PER W-5, (CULAC PIPE) OR DOUBLE STRAP, STAINLESS STEEL TAPPING COLLAR (PVC OR DUCTILE IRON) BRASS COMP STOP BRASS MALE/COPPER ADAPTER TYPE "C" COPPER TUBING 45° COPPER ELL BRASS SERVICE STOP, 8-11" W/ INSTALLED FOR LEFT HAND OPERATION PER RWHD SPEC. 15057.2.03 BRASS METER TALS WITH GASKETS WATER METER SUPPLIED BY DISTRICT BRASS BALL VALVE HOPE PLASTIC METER BOX AND COVER, USE 20"x30" BOX (BLACK) STATE APPROVED REDUCED PRESSURE BACKFLOW PREVENTION DEVICE BRONZE BALL VALVE, CLASS 125 6" BASE OF 3/4" ROOK 90° METALLIC ELBOW (COPPER OR BRASS) BRASS UNION METALLIC PIPE (COPPER OR BRASS) SACRIFICIAL ANODE REFER TO CP-18 	<ol style="list-style-type: none"> USE SILVER SOLDER FOR COPPER PIPE JOINTS. MORTAR COUPLING AND MALE THREADS OF COMP STOP AFTER CONNECTING TO A MORTAR - COATED STEEL PIPE. APPLY BITUMASTIC COMPOUND TO COUPLING AND MALE THREADS OF COMP STOP AFTER CONNECTING TO A TAP / WRAPPED STEEL PIPE. PIPE THREADS SHALL BE CLEAN, SHARP, AND WRAPPED WITH A PIPE THREAD SEAL TAPE. WHERE METER BOX IS LOCATED IN CONCRETE OR ASPHALT TRAFFIC AREAS, CONTACT DISTRICT FOR AN APPROVED CONCRETE METER BOX. DN 1-1/2" & 2" METERS (WHICH ARE FLANGED), PROVIDE THREADED COMPANION FLANGES, 150-LB. ALL BRASS FITTINGS TO BE DOMESTIC PRODUCTS. WRAP BURIED COPPER WITH 10 MIL CALPURO TAPE OR POLYETHYLENE ENCASUREMENT. METER TO BACKFLOW - ANY DISTANCE GREATER THAN 3' NEEDS APPROVAL FROM ENGINEER. AS APPROVED BY DISTRICT, DOUBLE CHECK TO BE INSTALLED BELOW GRADE IN METER BOX.



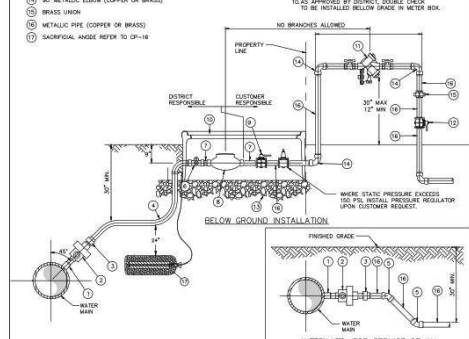
RAINBOW MUNICIPAL WATER DISTRICT	
PROJECT NO. 84198 EXP. 09/30/2019 REVISION APPROVED DATE	TYPICAL 1" TO 2" WATER SERVICE INSTALLATION WITH BACKFLOW DEVICE
METER REPLACEMENT NO. 09	FEBRUARY 2018

MATERIAL LIST	TYPICAL CONSTRUCTION NOTES:
<ol style="list-style-type: none"> FORGED STEEL HALF-COUPLING, THREADED, CLASS 3000, WELDED TO PIPE PER W-5, (CULAC PIPE) OR DOUBLE STRAP, STAINLESS STEEL TAPPING COLLAR (PVC OR DUCTILE IRON) BRASS COMP STOP BRASS MALE/COPPER ADAPTER TYPE "C" COPPER TUBING 45° COPPER ELL BRASS SERVICE STOP, 8-11" W/ INSTALLED FOR LEFT HAND OPERATION PER RWHD SPEC. 15057.2.03 BRASS METER TALS WITH GASKETS WATER METER SUPPLIED BY DISTRICT BRASS BALL VALVE HOPE PLASTIC METER BOX AND COVER, USE 20"x30" BOX (BLACK) STATE APPROVED REDUCED PRESSURE BACKFLOW PREVENTION DEVICE BRONZE BALL VALVE, CLASS 125 6" BASE OF 3/4" ROOK 90° METALLIC ELBOW (COPPER OR BRASS) BRASS UNION METALLIC PIPE (COPPER OR BRASS) SACRIFICIAL ANODE REFER TO CP-18 REDUCER BUSHING 	<ol style="list-style-type: none"> USE SILVER SOLDER FOR COPPER PIPE JOINTS. MORTAR COUPLING AND MALE THREADS OF COMP STOP AFTER CONNECTING TO A MORTAR - COATED STEEL PIPE. APPLY BITUMASTIC COMPOUND TO COUPLING AND MALE THREADS OF COMP STOP AFTER CONNECTING TO A TAP / WRAPPED STEEL PIPE. PIPE THREADS SHALL BE CLEAN, SHARP, AND WRAPPED WITH A PIPE THREAD SEAL TAPE. WHERE METER BOX IS LOCATED IN CONCRETE OR ASPHALT TRAFFIC AREAS, CONTACT DISTRICT FOR AN APPROVED CONCRETE METER BOX. DN 1-1/2" & 2" METERS (WHICH ARE FLANGED), PROVIDE THREADED COMPANION FLANGES, 150-LB. ALL BRASS FITTINGS TO BE DOMESTIC PRODUCTS. WRAP BURIED COPPER WITH 10 MIL CALPURO TAPE OR POLYETHYLENE ENCASUREMENT. METER TO BACKFLOW - ANY DISTANCE GREATER THAN 3' NEEDS APPROVAL FROM ENGINEER. AS APPROVED BY DISTRICT, DOUBLE CHECK TO BE INSTALLED BELOW GRADE IN METER BOX.



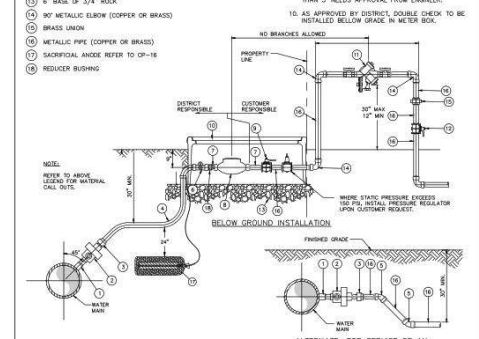
RAINBOW MUNICIPAL WATER DISTRICT	
PROJECT NO. 84198 EXP. 09/30/2019 REVISION APPROVED DATE	REDUCED 1" TO 2" WATER SERVICE INSTALLATION WITH BACKFLOW DEVICE
METER REPLACEMENT NO. 10	FEBRUARY 2018

MATERIAL LIST	TYPICAL CONSTRUCTION NOTES:
<ol style="list-style-type: none"> FORGED STEEL HALF-COUPLING, THREADED, CLASS 3000, WELDED TO PIPE PER W-5, (CULAC PIPE) OR DOUBLE STRAP, STAINLESS STEEL TAPPING COLLAR (PVC OR DUCTILE IRON) BRASS COMP STOP BRASS MALE/COPPER ADAPTER TYPE "C" COPPER TUBING 45° COPPER ELL BRASS SERVICE STOP, 8-11" W/ INSTALLED FOR LEFT HAND OPERATION PER RWHD SPEC. 15057.2.03 BRASS METER TALS WITH GASKETS WATER METER SUPPLIED BY DISTRICT BRASS BALL VALVE HOPE PLASTIC METER BOX AND COVER, USE 20"x30" BOX (BLACK) STATE APPROVED REDUCED PRESSURE BACKFLOW PREVENTION DEVICE BRONZE BALL VALVE, CLASS 125 6" BASE OF 3/4" ROOK 90° METALLIC ELBOW (COPPER OR BRASS) BRASS UNION METALLIC PIPE (COPPER OR BRASS) SACRIFICIAL ANODE REFER TO CP-18 	<ol style="list-style-type: none"> USE SILVER SOLDER FOR COPPER PIPE JOINTS. MORTAR COUPLING AND MALE THREADS OF COMP STOP AFTER CONNECTING TO A MORTAR - COATED STEEL PIPE. APPLY BITUMASTIC COMPOUND TO COUPLING AND MALE THREADS OF COMP STOP AFTER CONNECTING TO A TAP / WRAPPED STEEL PIPE. PIPE THREADS SHALL BE CLEAN, SHARP, AND WRAPPED WITH A PIPE THREAD SEAL TAPE. WHERE METER BOX IS LOCATED IN CONCRETE OR ASPHALT TRAFFIC AREAS, CONTACT DISTRICT FOR AN APPROVED CONCRETE METER BOX. DN 1-1/2" & 2" METERS (WHICH ARE FLANGED), PROVIDE THREADED COMPANION FLANGES, 150-LB. ALL BRASS FITTINGS TO BE DOMESTIC PRODUCTS. WRAP BURIED COPPER WITH 10 MIL CALPURO TAPE OR POLYETHYLENE ENCASUREMENT. METER TO BACKFLOW - ANY DISTANCE GREATER THAN 3' NEEDS APPROVAL FROM ENGINEER. AS APPROVED BY DISTRICT, DOUBLE CHECK TO BE INSTALLED BELOW GRADE IN METER BOX.



RAINBOW MUNICIPAL WATER DISTRICT	
PROJECT NO. 84198 EXP. 09/30/2019 REVISION APPROVED DATE	TYPICAL 1" TO 2" HIGH PRESSURE WATER SERVICE INSTALLATION WITH BACKFLOW DEVICE
METER REPLACEMENT NO. 11	FEBRUARY 2018

MATERIAL LIST	TYPICAL CONSTRUCTION NOTES:
<ol style="list-style-type: none"> FORGED STEEL HALF-COUPLING, THREADED, CLASS 3000, WELDED TO PIPE PER W-5, (CULAC PIPE) OR DOUBLE STRAP, STAINLESS STEEL TAPPING COLLAR (PVC OR DUCTILE IRON) BRASS COMP STOP BRASS MALE/COPPER ADAPTER TYPE "C" COPPER TUBING 45° COPPER ELL BRASS SERVICE STOP, 8-11" W/ INSTALLED FOR LEFT HAND OPERATION PER RWHD SPEC. 15057.2.03 BRASS METER TALS WITH GASKETS WATER METER SUPPLIED BY DISTRICT BRASS BALL VALVE HOPE PLASTIC METER BOX AND COVER, USE 20"x30" BOX (BLACK) STATE APPROVED REDUCED PRESSURE BACKFLOW PREVENTION DEVICE BRONZE BALL VALVE, CLASS 125 6" BASE OF 3/4" ROOK 90° METALLIC ELBOW (COPPER OR BRASS) BRASS UNION METALLIC PIPE (COPPER OR BRASS) SACRIFICIAL ANODE REFER TO CP-18 REDUCER BUSHING 	<ol style="list-style-type: none"> USE SILVER SOLDER FOR COPPER PIPE JOINTS. MORTAR COUPLING AND MALE THREADS OF COMP STOP AFTER CONNECTING TO A MORTAR - COATED STEEL PIPE. APPLY BITUMASTIC COMPOUND TO COUPLING AND MALE THREADS OF COMP STOP AFTER CONNECTING TO A TAP / WRAPPED STEEL PIPE. PIPE THREADS SHALL BE CLEAN, SHARP, AND WRAPPED WITH A PIPE THREAD SEAL TAPE. WHERE METER BOX IS LOCATED IN CONCRETE OR ASPHALT TRAFFIC AREAS, CONTACT DISTRICT FOR AN APPROVED CONCRETE METER BOX. DN 1-1/2" & 2" METERS (WHICH ARE FLANGED), PROVIDE THREADED COMPANION FLANGES, 150-LB. ALL BRASS FITTINGS TO BE DOMESTIC PRODUCTS. WRAP BURIED COPPER WITH 10 MIL CALPURO TAPE OR POLYETHYLENE ENCASUREMENT. METER TO BACKFLOW - ANY DISTANCE GREATER THAN 3' NEEDS APPROVAL FROM ENGINEER. AS APPROVED BY DISTRICT, DOUBLE CHECK TO BE INSTALLED BELOW GRADE IN METER BOX.



RAINBOW MUNICIPAL WATER DISTRICT	
PROJECT NO. 84198 EXP. 09/30/2019 REVISION APPROVED DATE	REDUCED 1" TO 2" HIGH PRESSURE WATER SERVICE INSTALLATION WITH BACKFLOW DEVICE
METER REPLACEMENT NO. 12	FEBRUARY 2018

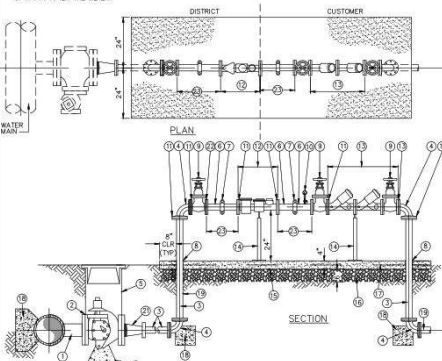
MATERIAL LIST

- ① 6" FLANGED OUTLET PER AWWA AND DISTRICT STANDARDS
- ② 6" FLANGED GATE VALVE, OR FLANGED PLUG VALVE, WHERE PRESSURE IS GREATER THAN 250 PSI
- ③ 3" DI PIPE T.E.
- ④ 3"X60" DI PIPE ELBOW, FLANGED
- ⑤ VALVE BOX INSTALLATION PER DISTRICT STD. DWG NO. W-19
- ⑥ 3" FLANGE X GROVE END SPOOL
- ⑦ 3" COUPLING, 150-LB, GALVANIZED
- ⑧ WRAP WITH FOAM TAPS FOR CONCRETE PENETRATION
- ⑨ 3" GATE VALVE, FLANGED
- ⑩ PRESSURE GAUGE INSTALLATION PER D.E.
- ⑪ 3" COMPANION FLANGE, FLANGED, 150-LB (OR 300-LB WHERE PRESSURE IS GREATER THAN 150 PSI)
- ⑫ WATER METER SUPPLIED BY DISTRICT
- ⑬ DISTRICT APPROVED REDUCED PRESSURE BACKFLOW PREVENTION DEVICE AS REQUIRED BY THE DISTRICT

- ⑭ ADJUSTABLE STAINLESS STEEL PIPE SUPPORT FOR 3" PIPING
- ⑮ CONCRETE SLAB, CLASS 500-A-2500
- ⑯ BACKFILL WITH AGGREGATE BASE, (60% RELATIVE COMPACTION)
- ⑰ STEEL REBAR, 1" O.C. EACH WAY GRADE 60 #4, AT MID-DEPTH
- ⑱ THRUST BLOCK, PER PMND SEC. 03300
- ⑲ WRAP PER DISTRICT STANDARDS
- ⑳ VALVE SUPPORT BLOCK PER STD DWG W-4
- ㉑ 6"x3" DI PIPE REDUCER, FLANGED
- ㉒ WHERE STATIC PRESSURE EXCEEDS 150 PSI, INSTALL PRESSURE REDUCING VALVE BETWEEN GATE VALVE AND METER PROVIDE SUFFICIENT CLEARANCE BEFORE DOWNSTREAM OF METER ACCORDING TO MANUFACTURER SPECIFICATIONS.

NOTES

1. CUSTOMER RESPONSIBLE FOR SUPPLYING PRESSURE REDUCING VALVE (PRV) WHEN PRESSURE EXCEEDS 175 PSI. REFER TO THE UNIFORM BUILDING CODE AND A PRIVATE ENGINEER REGARDING INSTALLATION OF A PRV AFTER THE METER.



RAINBOW MUNICIPAL WATER DISTRICT

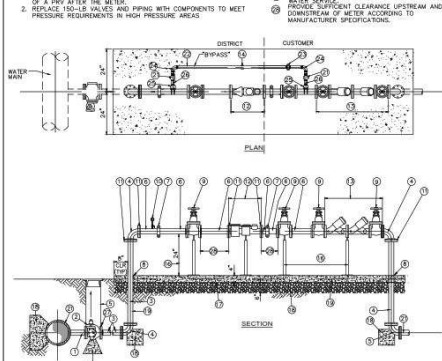
APPROVED: <i>[Signature]</i>	RAINBOW MUNICIPAL WATER DISTRICT	METER REPLACEMENT NO.
REV. # 84188 EXP 09/30/2019	3" WATER SERVICE	W-2
REVISION APPROVED DATE		FEBRUARY 2018

MATERIAL LIST

- ① 6" FLANGED OUTLET PER AWWA AND DISTRICT STANDARDS
- ② 6" FLANGED GATE VALVE, OR FLANGED PLUG VALVE, WHERE PRESSURE IS GREATER THAN 250 PSI
- ③ 3" DI PIPE T.E.
- ④ 3"X60" DI PIPE ELBOW, FLANGED
- ⑤ VALVE BOX INSTALLATION PER DISTRICT STD. DWG NO. W-19
- ⑥ 3" FLANGE X GROVE END SPOOL
- ⑦ 3" COUPLING, 150-LB, GALVANIZED
- ⑧ WRAP WITH FOAM TAPS FOR CONCRETE PENETRATION
- ⑨ 3" GATE VALVE, OR FLANGED PLUG VALVE, WHERE PRESSURE IS GREATER THAN 250 PSI, WITH HANDWHEEL OPERATOR
- ⑩ PRESSURE GAUGE INSTALLATION PER D.E.
- ⑪ COMPANION FLANGE, FLANGED, 150-LB
- ⑫ WATER METER SUPPLIED BY DISTRICT
- ⑬ DISTRICT APPROVED REDUCED PRESSURE BACKFLOW PREVENTION DEVICE AS REQUIRED BY THE DISTRICT
- ⑭ ADJUSTABLE STAINLESS STEEL PIPE SUPPORT PIPING
- ⑮ CONCRETE SLAB, CLASS 500-A-2500
- ⑯ BACKFILL WITH AGGREGATE BASE, (60% RELATIVE COMPACTION)
- ⑰ STEEL REBAR, 1" O.C. EACH WAY GRADE 60 #4, AT MID-DEPTH
- ⑱ THRUST BLOCK, PER PMND SEC. 03300
- ⑲ WRAP PER DISTRICT STANDARDS
- ⑳ VALVE SUPPORT BLOCK PER STD DWG W-4
- ㉑ OPERATOR PER PMND SPEC. 15057.2.03
- ㉒ BRASS SERVICE SIZING INSTALLED FOR RIGHT HAND OPERATOR PER PMND SPEC. 15057.2.03
- ㉓ 2" BRASS PIPE
- ㉔ BRASS UNION
- ㉕ 90° BRASS ELBOW
- ㉖ FERRIS STEEL HALF-COUPLING, THREADED, CLASS 3000
- ㉗ DOUBLE STRONG STAINLESS STEEL TAPPING COLLAR
- ㉘ BRASS NIPPLE
- ㉙ INSTALLED 6"x3" DI PIPE REDUCER, FLANGED FOR 4" WATER SERVICE
- ㉚ PROVIDE SUFFICIENT CLEARANCE UPSTREAM AND DOWNSTREAM OF METER ACCORDING TO MANUFACTURER SPECIFICATIONS.

NOTES

1. CUSTOMER RESPONSIBLE FOR SUPPLYING PRESSURE REDUCING VALVE (PRV) WHEN PRESSURE EXCEEDS 175 PSI. REFER TO THE UNIFORM BUILDING CODE AND A PRIVATE ENGINEER REGARDING INSTALLATION OF A PRV AFTER THE METER.
2. REPLACE 150-LB VALVES AND PIPING WITH COMPONENTS TO MEET PRESSURE REQUIREMENTS IN HIGH PRESSURE AREAS



RAINBOW MUNICIPAL WATER DISTRICT

APPROVED: <i>[Signature]</i>	RAINBOW MUNICIPAL WATER DISTRICT	METER REPLACEMENT NO.
REV. # 84188 EXP 09/30/2019	4" TO 6" WATER SERVICE	W-2A
REVISION APPROVED DATE		FEBRUARY 2018

Additional ECM's Analyzed

ABM reviewed and analyzed the following ECM's across the District. Our findings are included with each ECM listed.

LED Lighting Retrofit – Administration HQ

During our interviews with Staff and Management, ABM was made aware that the District's Administration Headquarters may relocate within the timeframe that this ECM's energy savings would financially offset its cost to implement. For this reason, this ECM was not deemed financially viable at this time.

Replace HVAC – Administration HQ

During our interviews with Staff and Management, ABM was made aware that the District's Administration Headquarters may relocate within the timeframe that this ECM's energy savings would financially offset its cost to implement. For this reason, this ECM was not deemed financially viable at this time.

Solar PV (125kW) – Administration HQ

During our analysis of the District's electrical energy consumption history, we determined that the District is a good candidate for Solar PV, considering the District's electrical consumption, the current and predicted rates for electricity, and the temperate climate of the District's location in North San Diego County. The District uses approximately 2.2 million kWh annually.

In order to offset the District's electrical with solar PV systems, ABM evaluated all of the District's real estate assets. Below is our findings:

Due to the limited sub 1 acre footprints of the various geographically distant pumping sites, and the District's history with theft and vandalism at these remote pumping facilities, the implementation of several smaller solar photovoltaic systems at the pump sites was not deemed to be feasible.

ABM reviewed the following sites for larger scale solar photovoltaic installations under the RES-BCT program approach, which would enable one large solar PV system's energy production to credit the District's other SDG&E electric meter accounts at the various pump and lift stations as well as the District Administrative Headquarters and Corporate Yard.

Based on historical electrical consumption without any energy conservation measures yet implemented, the District could implement up to a 2 megawatt centralized solar PV system. This would require a site footprint of approximately 3+ acres, and would require the associated SDG&E electrical utility infrastructure at that location to be sufficient to export that amount of electrical power back to the grid.



Beck Reservoir Site (including the adjacent residential lot) – Beck Reservoir was retired due to a change in the legislative requirements for storage of potable water, and it is currently empty of water. While the northern face wall of the inside of Beck Reservoir would be a viable installation location, the costs of upgrading SDG&E's electrical service at the Beck Reservoir to export that solar production eliminated the viability of the Beck Reservoir Site. Putting solar PV on the floor of the reservoir additionally minimized the amount of kWh produced due to morning shading from the Beck Hill to the east and the subterranean nature of building the arrays below the grade level of the top of reservoir.



Beck Reservoir



Vacant Adjacent Lot



Sumac Hill Reservoir – This location has an abandoned stub wall reservoir that takes up the majority of this site’s usable footprint. The existing dilapidated reservoir would need to be demolished, the site graded flat and then security fenced. The additional cost considerations to demolish and prep this site, and the costs of upgrading SDG&E’s electrical infrastructure (which would run through a neighboring residential property) eliminate the viability of the Sumac Reservoir Site from consideration.



Sumac Hill Reservoir

Morro Reservoir – This location has an in-use reservoir that has no available space for a large solar installation.



Morrow Reservoir



Pala Mesa Tank Site – This location has an existing tank, and a small area adjacent to the tank, but neither are sizable enough to warrant installation of a solar system, considering the cost to interconnect.



Pala Mesa Tank Site

District Headquarters and Corporate Yard – This location could be configured to accommodate a larger solar facility, however during our analysis and interviews of the District’s staff and management, the current site is under consideration for relocation in the coming years. This eventuality eliminated the viability of the current site from consideration. However, when the District’s HQ and Corporate Yard are relocated, it would be ideal to factor in the energy demand analysis from Phase 2 of our program and incorporate the required solar photovoltaic systems into the design of that future sites buildings, warehouses, and vehicle / equipment storage canopies.



Current District Headquarters and Yard



Battery Storage

ABM considered battery storage solutions at the various pump and lift locations to hedge against the peak cost of electricity, however considering the pending rate case to shift the peak cost of electricity and these sites may be enclosed due to theft and vandalism at these remote locations, this ECM was determined to re-assess during Phase 2 for applicability. Pump Station U1 and McGee are shown.



Pump Station U1



Pump Station McGee

EV Charging Stations – Administration HQ

During our interviews with Staff and Management, ABM was made aware that the District's Administration Headquarters may relocate within the timeframe that this ECM's energy savings would financially offset its cost to implement. For this reason, this ECM was not deemed financially viable at this time.



Security Cameras at Pumping Stations

During our interviews with Staff and Management, ABM was made aware that the remote pumping locations may be enclosed, and that at least one other water district in San Diego County has had very bad experiences with security systems in remote areas triggering false alarms due to wildlife and pedestrians approaching the fence lines that were under surveillance. We would suggest re-visiting this solution as part of the construction to enclose these sites.

Upgrade transformers where applicable

During our site investigations of the remote pumping facilities, ABM did not identify any sites that were candidates for this ECM, however several of the SDG&E primary transformers would be good candidates for a utility power analysis to see if they need replacement. The age of the exterior transformers at the remote pumping locations (Huntley, and McGee) indicated that they were very old, and the District may benefit from confirming power quality delivery to the District water pumps.



Older and Inefficient Remote Transformers



Install Natural Gas at PS1 & Vallecitos for Electrical Generation

During our interviews with Staff and Management, ABM was made aware that the air permit for one of the Pump Gens at PS1 was pending, and that the entire pump station was potentially going to be revised, including to enclose the additional pumps that sit adjacent to the existing structure. Vallecitos pump gen was offline when it was analyzed for this ECM. Both of these sites should be considered candidates for Phase 2.



Financial Guarantee

Water Meter Accuracy Guarantee

ABM's Guarantee is based solely upon water meter accuracy as determined by the annual testing (Measurement and Verification) of a statistically valid random sample of water meters operating under normal conditions, which have been replaced pursuant to the contract. No guarantee, express or implied, is provided with respect to any other matters, including, without limitation, the following items (and the effects thereof):

- Water System Revenue
- Water Usage/Consumption Trends
- Water Rationing Programs
- Demographic and/or Population Shifts
- Changes in The Industrial or Commercial Base
- Regulatory Changes
- Droughts, Floods, Rainfall, Or Other Weather or Climactic Conditions
- Water System Pressure Variations
- Non-Metered Water Usage
- Failure to Collect Amounts Due for Billable Consumption
- Changes in Monthly Base Charges, Monthly Allowable Minimum Base Consumption, Or Monthly Volume Charges
- Changes to Water and Sewer Rate Schedules
- Water Quality
- Failure of The Water System to Meet Governmental Requirements
- Improper Maintenance or Unsound Usage of The Improvement Measures or Any Related Equipment
- Performance of Automatic Meter Reading Equipment



The annual Water Meter Accuracy will be measured as described in the Meter Accuracy Guarantee Agreement, which will compare the RMWD's water meter Weighted System Accuracy before implementation of the Project ("Baseline Conditions") with that of the water meter Weighted System Accuracy during the applicable guarantee Period. The baseline period for RMWD shall be the Baseline Dates as described in the Meter Accuracy Guarantee Agreement. These dates may be adjusted based on final project completion and RMWD sign off of project completion.

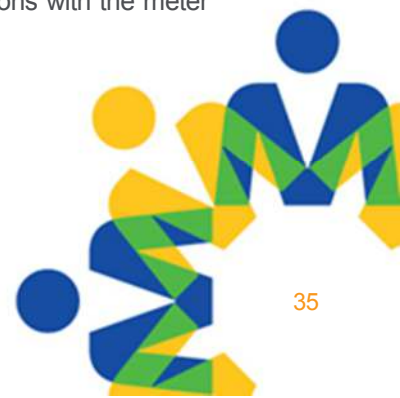
Baseline Conditions:

The baseline billed annual water consumption for the water meters is 6,693,712 HCF, based on consumption data provided by Rainbow Municipal Water District from July 2016 to June 2017. This baseline consumption shall be used to calculate the annual financial benefit for the remainder of the guarantee term. Consumption by Meter size is listed in the following table:

Meter Size	Consumption	% of Total Consumption
5/8	33,598	0.5%
3/4	728,100	10.9%
1	1,993,667	29.8%
1-1/2	1,190,678	17.8%
2	2,024,542	30.2%
3	397,503	5.9%
4	312,466	4.7%
6	13,158	0.2%
Total	6,693,712	100.0%

Water Meter Accuracy Guarantee: ABM Building and Energy Solutions guarantees that the RMWD will realize guaranteed water meter accuracy during the Contract Term of not less than the guaranteed water meter accuracy set forth in the ABM Meter Accuracy Guarantee Agreement. Should the RMWD's measured water meter Weighted System Accuracy during any Measurement Year be less than the Guaranteed water meter Weighted System Accuracy for that year, ABM guarantees that it shall pay to RMWD, within 30 days of the acceptance of the annual Weighted Average Meter Accuracy report, the pro-rated amount of the calculated penalty, not to exceed the Maximum Annual Shortfall Allowable set forth in the Meter Accuracy Guarantee Agreement.

Excessive Meter Failure Rates: Should 5% or more of any sample set of the meters tested fail the accuracy testing; an additional set of meters shall be tested. Should 5% or more of the additional set of meters fail the accuracy test, ABM shall work with the RMWD to determine if there is a potential manufacturing issue with the meter population. Should a manufacturing issue be discovered, ABM will facilitate negotiations with the meter manufacturer to resolve the issue.



Measurement and Verification (M&V)

Water Meter Replacement - Annual Measurement

Through this plan, the guaranteed accuracy of the water meters included in the installed scope of work will be validated. The objective of the plan is to quantify the Annual Measured Weighted System Accuracy and compare it to the specific Guaranteed Weighted System Accuracy.

Baseline M&V consisted of measuring a sample set of meters for accuracy using the procedure established per AWWA methods as outlined in the ABM Meter Accuracy Guarantee Contract. The post installation M&V will measure a statistically valid sample set of meters to determine post retrofit accuracy using the same AWWA methods. The performance will be measured 12 months from the completion of implementation. Repeat measurements and reporting will be provided as long as Customer renews the proposed annual M&V Agreement.

Calculation methodologies will be listed in the ABM Meter Accuracy Guarantee Contract and shall be used to determine individual and overall weighted meter accuracies.

The quantity of meters to be tested is outlined in the following table:

Size	5/8"	3/4"	1"	1-1/2"	2"	3"	4"	6"
Total Population	219	2,567	3,966	513	421	42	6	1
Test Freq.	Annual	Annual	Annual	Annual	Annual	Annual	Annual	Annual
Sample Test Size	36	42	42	39	39	21	6	1

Meter accuracy guarantee is contingent upon RMWD providing required manufacturer routine and preventative maintenance on meters and AMR system to include annual software and maintenance agreements.



ABM Value Statement

ABM Guarantees the Results

- ABM will guarantee the analysis completed during initial testing phases
- ABM will guarantee all implementation timelines
- ABM will guarantee the financial results to the District
- ABM will guarantee a complete, turnkey, no change order project

ABM Will Manage Every Aspect of Project Implementation

- ABM will provide all procurement of materials and inventory coordination
- ABM will provide all vendor coordination on site
- ABM will ensure all QA/QC for data, billing and IT integration
- ABM will coordinate every aspect of implementation coordination
- ABM will communicate all implementation progress to District throughout project
- ABM will coordinate all data integration with District IT and District billing personnel

ABM Will Facilitate All Financial Aspects of Project

- ABM will identify and coordinate the best financial instruments available
- ABM will bring potential qualified funding partners to District to facilitate financial close of project

ABM Stability

- ABM has over 100 years of direct presence in California – since 1909
- ABM has over 40 branch locations in California
- ABM employs over 20,000 talented Californians, and 120,000 employees worldwide
- ABM is a Fortune 500 publicly traded company with over \$7 Billion in revenue and has the financial strength and technical expertise to implement and guarantee this project



Financial Analysis

Funding Energy and Water Meter Projects at Public Sector Agencies

Tax Exempt Lease Purchase Agreements

Tax-exempt lease-purchase agreements (TELP) are common public-sector financing alternatives that allow repayment from operating expense dollars rather than capital expense dollars. They are effective alternatives to traditional debt financing (bonds, loans, etc.) and allow public organizations to pay for energy and infrastructure upgrades by using money already set aside in annual utility budgets. When properly structured, this type of financing mechanism allows public sector agencies to draw on dollars saved from future utility bills or revenue enhancement from capturing Non-Revenue Water (NRW) to pay for new equipment and infrastructure improvements today.

A tax-exempt lease-purchase agreement, also known as a municipal lease, is like an installment-purchase agreement rather than a traditional lease or rental agreement. Under most rental agreements (such as those used in car leasing), the renter (lessee) returns the asset (the car) at the end of the lease term, without building any equity in the asset being leased and can postpone the decision to acquire the asset being financed until the end of the lease term. A lease-purchase agreement, however, presumes that the public-sector organization will own the equipment after the term expires. Further, the interest rates are appreciably lower than those on a taxable commercial lease-purchase agreement because the interest paid is exempt from federal income tax for public sector entities.

Public sector organizations should consider using a tax-exempt lease purchase agreement to pay for energy efficiency and infrastructure improvements when the projected savings or revenue enhancement will be greater than the cost of the equipment plus financing. If financial decision makers are concerned about exceeding operating budgets, they can be assured that this will not happen because lease payments can come from the dollars to be saved once the energy efficiency or infrastructure improvements are implemented.

The terms for lease-purchase agreements may extend as long as 10 to 20 years; however, they are typically limited by the useful life of the equipment.

What are some of the benefits of tax-exempt leasing?

- Preservation of capital dollars for other projects for which leasing is not an option
- Preservation debt limitations (TELP typically does not create long-term debt on the entity's books)
- Enables improvement of cash flow
- Incorporates flexible structuring to meet budget needs
- Low rates resulting from tax-exempt basis
- Offers an alternative financing option without voter approval



- Provides total project financing (including soft costs)
- Spreads out the cost of an asset over the useful life of that asset or project.

Potential Funding Partners

ABM does not fund or finance energy efficiency projects and does not receive any remuneration from any of the funding/financing partners we work with. As a service to our customers ABM has thoroughly vetted each recommended partner for their financial stability, experience, longevity, and competitiveness in the area of rate and term for Tax Exempt Lease Purchase and other financing vehicles.

The following potential funding partners have examined the scope of work, costs, annual savings and financial pro forma for the recommended RMWD project and each has offered Tax Exempt Lease Purchase indicative rates and terms as listed in the chart below:

Indicative Rates as of July 6, 2018		
Potential Funding Partner	Website	8-Year Term
	www.bankofamerica.com	3.75%
	www.calbanktrust.com	3.45%
	www.holmancapital.com	3.93%

The following Cash Flow Analysis chart(s) demonstrates a 20-year lifecycle firm term Tax Exempt Lease Purchase for the most competitive indicative rate options listed above:



Preliminary 8 Year Term Cash Flow – Full Scope

Rainbow Municipal Water District
Project Cash Flow 7/2/2018

FULL SCOPE OF WORK

PROJECT COST: \$ 6,106,626

	A	B	C	D	E	F	G	H	I	J	K	L	Q	V	AB	
1																
2	Lessee:	Rainbow MWD, (CA) - 8 Year Lease Term			Date:	7/2/2018										
3	Lessor:	TBD			Rate:	3.75%										
4		PRELIMINARY* 20 YEARS CASH FLOWS														
5		YEAR: 0	1	2	3	4	5	6	7	8	9	10	15	20	TOTALS	
6																
7	NRW Revenue Enhancement															
8	Meter Replacement Project		\$ 904,563	\$ 931,700	\$ 868,644	\$ 805,527	\$ 742,410	\$ 613,504	\$ 548,062	\$ 482,392	\$ 417,385	\$ 373,700	\$ 433,221	\$ 502,222	\$ 11,100,460	
11	(Includes 100 Test Meter Stock)														\$ 0	
13	Year 0 Savings	\$ 226,141													\$ 226,141	
14																
15	Total NRW Revenue Enhancement	\$ 226,141	\$ 904,563	\$ 931,700	\$ 868,644	\$ 805,527	\$ 742,410	\$ 613,504	\$ 548,062	\$ 482,392	\$ 417,385	\$ 373,700	\$ 433,221	\$ 502,222	\$ 11,326,601	
16																
17	Operational Costs Reductions														\$ 0	
18	Ops Savings/Cash Avoidance		\$ 180,000	\$ 187,200	\$ 194,688	\$ 202,476	\$ 210,575	\$ 218,998	\$ 227,757	\$ 236,868	\$ 246,342	\$ 256,196	\$ 0	\$ 0	\$ 2,161,099	
20															\$ 0	
23	Year 0 Savings	\$ 45,000														
24																
25	Total Operational Cost Reductions	\$ 45,000	\$ 180,000	\$ 187,200	\$ 194,688	\$ 202,476	\$ 210,575	\$ 218,998	\$ 227,757	\$ 236,868	\$ 246,342	\$ 256,196	\$ 0	\$ 0	\$ 2,206,099	
36																
37	TOTAL RETURNED SAVINGS	\$ 271,141	\$ 1,084,563	\$ 1,118,900	\$ 1,063,332	\$ 1,008,003	\$ 952,985	\$ 832,502	\$ 775,819	\$ 719,260	\$ 663,727	\$ 629,896	\$ 433,221	\$ 502,222	\$ 13,532,700	
38															\$ 0	
39	ANNUAL LEASE PAYMENT		(\$ 890,625)	(\$ 890,625)	(\$ 890,625)	(\$ 890,625)	(\$ 890,625)	(\$ 890,625)	(\$ 890,625)	(\$ 890,625)			\$ 0	\$ 0	(\$ 7,125,000)	
44															\$ 0	
45	ABM Annual M&V		(\$ 100,000)	(\$ 103,000)	(\$ 106,090)	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	(\$ 309,090)	
46																
47																
48																
49	TOTAL AMOUNT INVESTED	\$ 0	(\$ 990,625)	(\$ 993,625)	(\$ 996,715)	(\$ 890,625)	(\$ 890,625)	(\$ 890,625)	(\$ 890,625)	(\$ 890,625)	(\$ 890,625)	\$ 0	\$ 0	\$ 0	\$ 0	(\$ 7,434,090)
50																
51	ANNUAL CASH FLOW:		\$ 93,938	\$ 125,275	\$ 66,617	\$ 117,378	\$ 62,360	(\$ 58,123)	(\$ 114,806)	(\$ 171,365)	\$ 663,727	\$ 629,896	\$ 433,221	\$ 502,222	\$ 5,827,469	
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58	NOTES/ASSUMPTIONS:															
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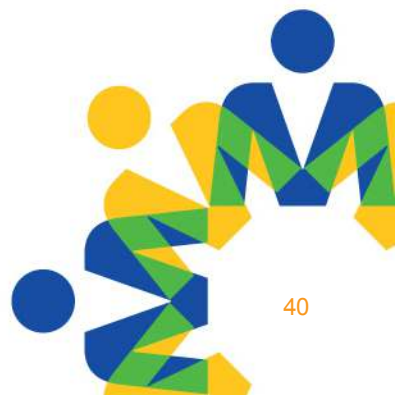
TAX EXEMPT LEASE PURCHASE AMOUNT:	\$ 6,106,626
- PROJECT COST DUE ABM:	\$ 6,106,626
= BANK FEE:	\$ 0

Total Cumulative Savings	\$ 5,827,469
20-Year Return on Investment (ROI)	82.04%

1. An annual indicative rate of 3.75% has been used and the lease is assumed for a term of 8 years.
2. NRW Revenue Enhancement is escalated at 3% annually.
3. Baseline utilized from NRW Revenue Enhancement does not include RMWD rate increase in March 2018.
4. Annual Measurement & Verification (M&V) is escalated at 3% annually for 3 years.
5. Annual Operational Savings/Cash Avoidance is escalated at 4% annually for 10 years.
6. Annual anticipated Labor Savings of \$219,600 is not included in this cash flow, but is to be considered a labor redeployment opportunity savings for RMWD.
7. Year 0 Savings are based on a 9-month implementation schedule utilizing this vendor.
8. Annual M&V needed for financial guarantee is included for 3 years, but is subject to RMWD discretion as to length of guarantee term.

* This Cash Flow is for discussion purposes only and is not an offer for financing.

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Preliminary 7 Year Term Cash Flow – Reduced Scope

**Rainbow Municipal Water District
Project Cash Flow 7/2/2018
REDUCED SCOPE OF WORK**

PROJECT COST: \$ 5,395,075

	A	B	C	D	E	F	G	H	I	J	K	L	Q	V	AB
1															
2	Lessee:	Rainbow MWD, (CA) - 7 Year Lease Term			Date:	7/2/2018									
3	Lessor:	TBD			Rate:	3.75%									
4		PRELIMINARY* 20 YEARS CASH FLOWS													
5		YEAR: 0	1	2	3	4	5	6	7	8	9	10	15	20	TOTALS
6															
7	NRW Revenue Enhancement														
8	Meter Replacement Project		\$ 834,079	\$ 859,101	\$ 796,045	\$ 732,927	\$ 669,811	\$ 533,997	\$ 485,793	\$ 437,364	\$ 389,291	\$ 373,700	\$ 433,221	\$ 502,222	\$ 10,524,682
11	(Includes 100 Test Meter Stock)														\$ 0
13	Year 0 Savings	\$ 208,520													\$ 208,520
14															
15	Total NRW Revenue Enhancement	\$ 208,520	\$ 834,079	\$ 859,101	\$ 796,045	\$ 732,927	\$ 669,811	\$ 533,997	\$ 485,793	\$ 437,364	\$ 389,291	\$ 373,700	\$ 433,221	\$ 502,222	\$ 10,733,202
16															
17	Operational Costs Reductions														\$ 0
18	Ops Savings/Cash Avoidance		\$ 180,000	\$ 187,200	\$ 194,688	\$ 202,476	\$ 210,575	\$ 218,998	\$ 227,757	\$ 236,868	\$ 246,342	\$ 256,196	\$ 0	\$ 0	\$ 2,161,099
20															\$ 0
23	Year 0 Savings	\$ 45,000													
24															
25	Total Operational Cost Reductions	\$ 45,000	\$ 180,000	\$ 187,200	\$ 194,688	\$ 202,476	\$ 210,575	\$ 218,998	\$ 227,757	\$ 236,868	\$ 246,342	\$ 256,196	\$ 0	\$ 0	\$ 2,206,099
36															
37	TOTAL RETURNED SAVINGS	\$ 253,520	\$ 1,014,079	\$ 1,046,301	\$ 990,733	\$ 935,403	\$ 880,386	\$ 752,995	\$ 713,550	\$ 674,232	\$ 635,633	\$ 629,896	\$ 433,221	\$ 502,222	\$ 12,939,301
38															\$ 0
39	ANNUAL LEASE PAYMENT		(\$ 883,466)	(\$ 883,466)	(\$ 883,466)	(\$ 883,466)	(\$ 883,466)	(\$ 883,466)	(\$ 883,466)				\$ 0	\$ 0	(\$ 6,184,262)
44															\$ 0
45	ABM Annual M&V		(\$100,000)	(\$103,000)	(\$106,090)	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	(\$309,090)
46															
47															
48															
49	TOTAL AMOUNT INVESTED	\$ 0	(\$ 983,466)	(\$ 986,466)	(\$ 989,556)	(\$ 883,466)	(\$ 883,466)	(\$ 883,466)	(\$ 883,466)	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	(\$ 6,493,352)
50															
51	ANNUAL CASH FLOW:		\$ 30,613	\$ 59,835	\$ 1,177	\$ 51,937	(\$ 3,080)	(\$ 130,471)	(\$ 169,916)	\$ 674,232	\$ 635,633	\$ 629,896	\$ 433,221	\$ 502,222	\$ 6,192,429
52															
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TAX EXEMPT LEASE PURCHASE AMOUNT:	\$ 5,395,075
- PROJECT COST DUE ABM:	\$ 5,395,075
= BANK FEE:	\$ 0

NOTES/ASSUMPTIONS:

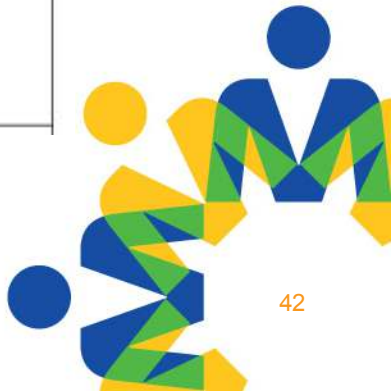
1. An annual indicative rate of 3.75% has been used and the lease is assumed for a term of 7 years.
2. NRW Revenue Enhancement is escalated at 3% annually.
3. Baseline utilized fro NRW Revenue Enhancement does not include RMWD rate increase in March 2018.
4. Annual Measurement & Verification (M&V) is escalated at 3% annually for 3 years.
5. Annual Operational Savings/Cash Avoidance is escalated at 4% annually for 10 years.
6. Annual anticipated Labor Savings of \$219,600 is not included in this cash flow, but is to be considered a labor redeployment opportunity savings for RMWD.
7. Year 0 Savings are based on a 9-month implementation schedule utilizing this vendor.
8. Annual M&V needed for financial guarantee is included for 3 years, but is subject to RMWD discretion as to length of guarantee term.

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Preliminary Project Schedule



Monthly Installation Schedule Based on Billing Zones

Billing Cycles	Day of Month						
	Month 1			Month 2			
	1		30	1		30	1
1	Read	Install Work	Upload	Read	No Install Work		
2	No Install Work	Read	Install Work	Upload	Read		
3	No Install Work	Read	Install Work	Upload			



EXHIBIT C

ABM Building Solutions, LLC

*District-wide Meter Replacement
Project Agreement*

Proposal Date	Proposal Number	Agreement Number	Page
			1 of 10

BY AND BETWEEN:

ABM Building Services LLC 3585 Corporate Court San Diego, CA 92123	AND	Rainbow Municipal Water District 3707 Old Highway 395 Fallbrook, CA 92028
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Hereinafter: **Contractor**

Hereinafter: **Customer**

PROJECT DESCRIPTION AND LOCATION

Professional Services for water meter infrastructure improvements for **Rainbow Municipal Water District**, which are individually listed on Exhibit B. Contractor will provide all professional services; engineering; design; procurement; and installation of the infrastructure improvements indicated in Exhibit “B”, Scope of Work (the “Work”), to deliver a complete installation. All Work will be subject to the terms and conditions set forth on Exhibits A and B hereto.

The purchase price for the Work will be \$. The work performed under this Agreement will be substantially complete and ready for Customer’s beneficial use within months of Customer’s acceptance and Contractor’s approval of this Agreement. Customer’s acceptance and obligations hereunder are contingent upon and subject to the Customer obtaining financing satisfactory to Customer within forty-five (45) days hereof. Upon timely notification by Customer to Contractor of the inability to obtain financing satisfactory to Customer, this Agreement shall be null and void.; Otherwise, if Customer obtains satisfactory financing or fails to notify Contractor, then this Agreement shall become the valid obligations of both Contractor and Customer.

This proposal is proprietary property of Contractor and is provided for Customer’s use only, subject to the requirements of any applicable Open Records Acts. Contractor guarantees the price stated in this Agreement for thirty (30) days from proposal date above. The proposal will become a binding Agreement only after acceptance by Customer and approval by an officer of Contractor as evidenced by their signatures below. This Agreement, including all Exhibits and Attachments hereto, sets forth all the terms and conditions binding upon the parties hereto; and no person has authority to make any claim, representation, promise or condition on behalf of Contractor which is not expressed herein.

ABM Building Services, LLC

Rainbow Municipal Water District

Signature (Authorized Representative)	Signature (Authorized Representative)
Mark Newsome	Tom Kennedy
Name (Print)	Name (Print)
President	General Manager
Title	Title
Date	Date

Exhibit A

Terms and Conditions to Project Agreement

The term “Contractor” shall mean and include **ABM Building Solutions, LLC**

The term “Customer” shall mean and include **Rainbow Municipal Water District**

The term “Agreement” shall mean the Project Agreement these Terms and Conditions accompany and to which these Terms and Conditions are expressly made a part of.

1. Contractor warrants that the materials and workmanship provided by the Contractor under this Agreement will be free from defects for a period of 12 months after Customer’s acceptance or beneficial use of the systems or any portion thereof, whichever is earlier, provided that the Contractor is given prompt written notice of the defect. In addition, if any replacement part or item of equipment proves defective, Contractor will extend to Customer the benefits of any warranty Contractor has received from the manufacturer. Contractor agrees to act on behalf of the Customer for purposes of processing any warranty claims against applicable manufacturers. Such obligation includes only administrative processing and not enforcement. Contractor agrees to respond to emergency warranty claims of Customer within 24 hours of call from Customer. Customer shall permit only Contractor’s personnel or manufacturer’s agent to perform the warranty work unless expressly authorized herein. If Contractor responds to a warranty call made at Customer’s request and inspection indicates a condition which is not covered under this Agreement, Contractor may charge Customer at the hourly rate for such services.

2. Equipment that is to be replaced shall maintain a high standard of quality. The Customer shall review all product and manufacturer cut sheets on new equipment that is to be installed. The following shall be a minimum standard of equipment: Neptune Meters (ultrasonic) up to 2", Kamstrup Meters (ultrasonic) up to 3", Siemens Meters (magnetic) above 3".
3. Customer shall permit Contractor free and timely access to areas and equipment, and allow Contractor to start and stop service as necessary to perform the Work. All Work under this Agreement will be performed during the Contractor's normal working hours; except that Work will be performed with as little disruption to Customer's or Customer's Client's normal business activities as possible. Contractor shall perform background checks on all employees and sub-contractors who will be working on the project. Contractor agrees to comply with any request from Customer to remove any employee or sub-contractor from the project to the extent permitted by applicable law or collective bargaining agreements.
4. Contractor and Customer agree that all Work required for the Project, including that of all other contractors and subcontractors for the Customer, if applicable, shall be performed in accordance with a schedule of construction activities prepared by Contractor in advance of their commencement. Contractor shall provide a detailed schedule of its activities, its relationship to other activities, and its access requirements and durations, and Contractor agrees to perform such activities with as little disruption to Customer's and Customer's Client's normal operation as possible. The schedule shall be based upon commencement and completion dates stated in this Agreement. Contractor shall be entitled to an extension of contract time in the event the Work or any part thereof is delayed by any cause beyond Contractor's reasonable control. Such causes include, but are not limited to: acts of God or public enemy; compliance with any order, decree, or request of any government authority; acts of declared or undeclared war; sabotage; fire; floods; adverse weather conditions; explosions; accidents; riots; strikes; labor disputes; inability to obtain necessary materials or equipment from normal sources of supply; or any other cause not within the reasonable control of the Contractor.
5. Any alteration to, or deviation from, this Agreement involving extra work, cost of materials, or labor will become an extra charge (fixed price amount to be negotiated, or on a time-and-material basis at Contractor's rates then in effect) over the sum stated in this Agreement; and must be approved in advance and in writing by Customer, and Customer shall not incur any such extra charge as a result of any negligent act or omission by Contractor.
6. Contractor will not be required to move, replace, or alter any part of the water system infrastructure in the performance of this Agreement except as specifically provided for herein.
7. This Agreement does not include responsibility for repair or replacement necessitated by freezing weather, natural disaster, high water pressure, vandalism, misuse or abuse of the system(s), requirements of governmental, regulatory or insurance agencies, or other causes beyond control of Contractor.
8. Customer shall make available to Contractor's personnel all pertinent Material Safety Data Sheets (MSDS) pursuant to OSHA's Hazard Communication Standard Regulations.
9. Contractor's obligation under this Agreement does not include the identification, abatement or removal of any asbestos products or other hazardous substances. In the event such products or substances are encountered, Contractor's sole obligation will be to notify the Customer of the existence of such products and materials. Contractor shall have the right thereafter to suspend its Work until such products and materials and the resultant hazards are removed. The time for completion of the work shall be extended to the extent caused by the suspension and the contract price equitably adjusted as determined by Customer.
10. **Insurance.** Contractor shall maintain the following insurance: 1) Commercial General Liability insurance with limits for bodily injury and property damage of not less than \$2,000,000 per occurrence, \$4,000,000 general aggregate; 2) Commercial Automobile Liability insurance with limits of liability for bodily injury and property damage of not less than \$5,000,000 combined single limit; 3) Workers' Compensation insurance with statutory limits and with an employer's liability limit of at least \$1,000,000 and 4) Excess liability limits of \$5,000,000 on above coverages. Contractor has the right to be self-insured where permitted by state law or to provide such coverage subject to a deductible or self-insured

retention. Commercial General Liability and Automobile Liability policies shall apply on a primary and noncontributory basis and Customer shall be included as an additional insured under the General Liability and Automobile Liability policies, but only to the extent Customer is indemnified herein. Contractor, Customer and their insurers shall waive all rights of subrogation against one another for property damage claims. Upon request, Contractor will provide Customer with a certificate of insurance describing the coverage provided in accordance with these provisions and 30 day advance notice of cancellation/non-renewal will be provided. Customer will carry a policy of builder's risk insurance on each building while then subject to the Work, including extended coverage, with limits equal to the replacement value of such building, including equipment installed thereon under this Agreement. Customer shall cause Contractor and its subcontractors to be included as additional insureds under such policy.

11. Contractor agrees to indemnify, defend, and hold harmless Customer from and against any and all third party claims, losses, or liabilities for personal injuries or property damages, as well as costs and expenses incurred in the defense thereof (including reasonable attorney's fees), to the extent caused by Contractor's negligence, willful misconduct or other fault of Contractor in the performance of the Work under this Agreement.
12. **LIMITATION OF LIABILITY. EXCEPT TO THE EXTENT OF A PARTY'S INDEMNITY OBLIGATIONS FOR THIRD PARTY CLAIMS, UNDER NO CIRCUMSTANCES SHALL EITHER PARTY BE LIABLE TO THE OTHER PARTY FOR ANY CONSEQUENTIAL, SPECIAL, INDIRECT, INCIDENTAL, EXEMPLARY OR PUNITIVE DAMAGES, INCLUDING, WITHOUT LIMITATION, LOSS OF PROFITS, LOSS OF BUSINESS OPPORTUNITY OR LOSS OF PROSPECTIVE REVENUE, ARISING OUT OF THIS AGREEMENT OR ANY WORK PERFORMED OR TO BE PERFORMED HEREUNDER.**
13. Contractor shall not be liable for any delay, loss, damage or detention caused by acts of God or public enemy; compliance with any order, decree, or request of any government authority; acts of declared or undeclared war; sabotage; fire; floods; adverse weather conditions; explosions; accidents; riots; strikes; labor disputes; inability to obtain necessary materials or equipment from normal sources of supply to the extent such liability is unforeseeable; or any other cause not within the reasonable control of the Contractor.
14. Either party shall have the right to terminate this Agreement upon 1) a material breach by the offending party which remains uncured following thirty (30) days written notice or 2) if Customer's facility or the Equipment is condemned or destroyed, in whole or in part and not promptly repaired or replaced in full. Upon such a termination, all obligations of Contractor and the Customer (other than the obligation to make payments already due and payable under this Agreement) will immediately cease.
15. **Dispute Resolution:** Any controversy, claim, counterclaim, or dispute between the parties (or their affiliates) arising out of or relating to this Agreement or the subject matter hereof (including, without limitation, any questions concerning the scope and applicability of this paragraph) shall be attempted to be resolved first by mediation. If the mediation fails to resolve the controversy, the parties agree that any action to enforce this Agreement, or resolve any controversy, claim, counterclaim or dispute between the parties (or their affiliates) arising out of or relating to this Agreement or the subject matter hereof (including, without limitation, any questions concerning the scope and applicability of this paragraph), may be brought in the courts for the county of (or judicial districts for) San Diego, California and the laws of the state of California shall control. The parties hereto hereby consent to the jurisdiction of such courts and waive any objection to the jurisdiction or venue of such courts.
16. If applicable, any tax benefits, rebates or deductibles such as, but not limited to, those under section 179D of the Internal Revenue Code regarding the Energy Policy Act of 2005 are assigned to Contractor as part of this Agreement. Customer will use commercially reasonable efforts to assist with executing any necessary documents for Contractor to obtain such benefits.

17. **Payment.** Payment shall be made within thirty (30) days of Customer's receipt of Contractor's invoice. Contractor may terminate this Agreement if any outstanding amounts remain unpaid after delivering thirty (30) days' notice to cure to Customer.
18. **Confidentiality.** (a) As used herein, "Confidential Information" means all information, including this Agreement, that is furnished by a Discloser, its affiliates or subsidiaries, including, but not limited to: business agreements, business secrets, business information, business plans, financial and pricing information, business practices, financial statements and reports, project specifications, projections, schematics and drawings, trade secrets, processes, materials, customer lists, supplier lists, sales volume, territories, markets, current, future or potential acquisitions, technical, production, operational, marketing or sales information or any and all other financial, business, organizational and technological information related to the Discloser's business and/or organization, whether or not such information is specifically marked "Confidential" or other similar legend. "Confidential Information" shall include all writings, notes, memoranda, media made by the Discloser or its employees, agents or servants with respect to such Confidential Information. Notwithstanding the foregoing, the following will not constitute Confidential Information for purposes of this Agreement: (a) information that is or becomes generally available to the public other than as a result of a disclosure by the Recipient or its Representatives, or (b) information that becomes available on a non-confidential basis from a source other than a party to this Agreement and if Recipient has no reason to believe such source was subject to any prohibition against transmitting such information
- (b) Recipient shall use the Confidential Information solely in connection with the Agreement and the Recipient shall not disclose the Confidential Information to any person other than directors, officers, employees, lenders, counsel, representatives or affiliates of Recipient, if any (collectively, "Representatives"), who need to know the Confidential Information in connection with the Agreement. It is understood that (i) such Representatives shall be informed by the Recipient of the confidential nature of the Confidential Information and the requirement that it not be used other than for the purposes described above, (ii) such Representatives shall be required to agree to and be bound by the terms of this Agreement with respect to the confidentiality of such Confidential Information as a condition of receiving the Confidential Information and (iii) in any event, the Recipient shall be responsible for any breach of this Agreement by any of its Representatives. The Confidential Information shall be safeguarded from unauthorized disclosure and shall not be used in any manner by any party except as may be necessary for the purposes set forth herein. The term "person" as used in this Agreement shall be broadly interpreted to include, without limitation, any corporation, company, partnership, individual or other entity.
- (c) If the Recipient or its Representatives are requested or required (by oral question, interrogatories, requests for information or documents, subpoena, civil investigative demand or similar process) to disclose any Confidential Information, the Recipient will promptly notify Discloser of such request or requirement so that Discloser may seek an appropriate protective order or waiver in compliance with the provisions of this Agreement. If, in the absence of a protective order or the receipt of a waiver hereunder, the Recipient or its Representatives are, in the written opinion of counsel, compelled to disclose the Confidential Information or else stand liable for contempt or suffer other censure or significant penalty, the Recipient may disclose only such of the Confidential Information to the party compelling disclosure as is required by law.
- (d) The obligations under this Section will survive any termination or expiration of this Agreement indefinitely.
19. **No Partnership.** Nothing in this Agreement shall (i) be deemed to constitute a partnership in law between the parties, (ii) constitute any party the agent of the other for any purpose or (iii) entitle any party to commit or bind the other (or any member of its respective group) in any manner.
20. **Counterparts.** This Agreement may be executed in one or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument.
21. **Entire Agreement and Disclaimer of Reliance.** This Agreement constitutes the entire understanding and agreement of the parties with respect to its subject matter and any and all prior agreements, understandings or representations with

respect to its subject matter in this agreement terminated and canceled in their entirety and are of no further force or effect. The parties represent that they have not relied on any promise, representation, or warranty, express or implied, not contained in this Agreement, and any such reliance is hereby disclaimed.

22. **No Third Party Rights.** Nothing in this Agreement, whether express or implied, is intended to confer any rights or remedies under or by reason of this Agreement on any persons other than the parties and their respective successors and assigns, nor is anything in this Agreement intended to relieve or discharge the obligation or liability of any third person to any party to this Agreement, nor shall any provision give any third person any right of subrogation or action over or against any party to this Agreement.
23. **Legal Capacity.** Each of the parties and signatories to this Agreement has the full right, power, legal capacity and authority to enter into and perform the party's respective obligations under this Agreement, and no approvals or consents of any other person are necessary in connection with that authority.
24. **Successors and Assigns.** All of the terms and provisions contained in this Agreement shall inure to the benefit of and shall be binding upon the parties to this Agreement and their respective heirs, legal representatives, successors and assigns. No party may assign, transfer, or novate any of its rights and obligations either in whole or in part to any other person or entity without the written consent of the other.
25. **Further Assurances.** Each of the parties to this Agreement shall execute and deliver any and all additional papers, documents and other assurances, and shall do any and all acts and things reasonably necessary in connection with the performance of their obligations under this Agreement to carry out the intent of the parties to this Agreement.
26. **Attorney's Fees.** Should any party engage an attorney or institute any action or proceeding at law or in equity to enforce any provision of this Agreement, including an action for declaratory relief, or for damages by reason of an alleged breach of any provision of this Agreement, or otherwise in connection with this Agreement, or any provision of this Agreement, the prevailing party shall be entitled to recover from the losing party reasonable and necessary attorney fees and costs for services rendered to the prevailing party in that action or proceeding.
27. **Independent Counsel.** All of the parties warrant and represent that they have been advised that they should be represented by counsel of their own choosing in the preparation and analysis of this Agreement; that they have been represented by independent counsel or have had the opportunity to be represented by independent counsel; and that they have read this Agreement with care and believe that they are fully aware of and understand its contents and its legal effect.

Exhibit B - Scope of Work

1. The Contractor shall, upon receipt of a written Notice to Proceed from the Customer, procure and implement the replacement of approximately 7,394 individual water meters distributed throughout the Customer's water district. The Contractor shall procure the meters from the manufacturer's authorized representative that services the Customer's water district's area which is located in the unincorporated area of north San Diego County, California.
2. The Contractor, through one or more appropriately licensed and bonded subcontractor(s), facilitate the installation and replacement of existing water meters, with appropriately sized meters to match the existing meters, or in certain cases where directed to replace existing meters with smaller diameter meters as prescribed by the Customer, in writing prior to the execution of this agreement.
3. The Contractor shall coordinate all communications between the Customer and all vendors, suppliers, contractors, and subcontractors.
4. The Contractor shall have full access to and full logistical support from the Customer, its staff and employees to coordinate the successful implementation of the work, in a manner where all reasonable efforts shall be made by all parties to this agreement to coordinate the advance notice to affected water meter account clients. The Customer shall provide upon Contractor's request any and all maps, routes, meter locations, client addresses, and if available, GIS mapping layers, in printed and electronic format.
5. The Contractor shall coordinate the shipping, receiving, unloading, warehousing, and inventory of all new equipment, delivered to a pre-determined "lay down" yard location at the Customer's administrative yard, and the Contractor shall maintain up to three (3) temporary office trailers, four (4) connex storage containers, and one (1) 40 yard rubbish bin from the period of the Notice to Proceed to the conclusion of the work, solely for the Contractor's packaging waste from the new equipment.
6. The Customer agrees to provide Contractor's Designated Project Manager, and support personnel the necessary keys, cardkeys, access authorization and written permission for Contractor's staff, suppliers, deliverymen, and subcontractors vehicular and delivery/receiving access to the "lay down" yard twenty-four hours a day, seven days a week.
7. The Contractor shall schedule the replacement of the meters in an efficient manner working collaboratively with the District's Accounting Department, Meter Department, Operations Department and General Management. Both parties, shall in writing, approve of the implementation schedule and installation routes and locations so as to best coordinate the least interruption to the Meter Department's monthly meter reading activities, and in a timely manner deliver the latest water meter reading data and the new water meter serial number information in an aggregated electronic progress report. The implementation schedules and installation routes and locations may be updated as necessary from time to time, to allow for inaccessible water meter locations and coordination variables due to the Customers staffs daily routines. The intent of this Contractor activity is to minimize the delay of the old-meter-to-new-meter transition information to the Customer's Accounting Department, and minimize economic loss of billing data to the Customer. The Contractor will provide, at a minimum, weekly aggregated electronic progress reports to provide the Meter Department the meter installations performed during any given week.
8. The Contractor shall notify the Customer's Meter Department, in writing, of any locations where the meter could not be freely accessed for replacement. The Contractor nor their subcontractor(s) shall be required to linger, loiter or wait for a meter account client's availability. The Contractor will note a lack of access on a daily log, which will aggregate into a weekly report all inaccessible meter locations and provide that information to the Customer's Meter Department for further client coordination and notification of access requirements.
9. The Contractor or their subcontractor(s) shall, in a workmanlike manner, shall perform the following during the replacement of water meters:
 - Photograph and record the GPS coordinates (3-5 meter accuracy) of meter locations prior to removing existing meters. Record the water meter reading at the time of removal for the Customers Accounting Department.

- Install one (1) new meter per existing in-service meter. Photograph the new meter installation in situ.
- Record the new meter manufacturer, size, and serial number. If legible, record the existing register and if necessary, replace the existing antenna wire with the new meter manufacturer supplied armor cable antennae. Attach the antennae wire per manufacturer’s specifications.
- Reinstall existing meter box lid, and if either the meter box or lid is missing or damaged, coordinate the appropriate sized box and/or lid to be installed.
- Photograph the new meter installation in situ. Photographs and meter reading, new meter manufacturer, size, and serial number data shall be included in weekly electronic reporting to the Customer.
- Remove all rubbish, trash, debris, spoils, packaging and old meter equipment from each installation location. Contractor shall leave the meter location in the least disturbed condition reasonably possible.
- Deliver old meter equipment to the Customers administrative yard collection location. Dispose of all rubbish, trash, debris, spoils, and packaging in Contractors rubbish container located at the Districts administrative yard.

10. Contractor shall coordinate the implementation of a data migration software solution to import the necessary water meter readings, new water meter manufacturer, size and serial number (meter data) for each of the Districts client accounts. Contractor shall deliver the electronic files containing photographs, GPS coordinates, and a backup of the meter data to the Customers Meter and Accounting Department.

11. Meter Counts included in this Contract are limited to 7,735 and are specified as follows by manufacturer, unit count and size.

<u>Neptune</u>	<u>Size</u>	<u>Quantity</u>	<u>Kamstrup</u>	<u>Size</u>	<u>Quantity</u>
ultrasonic	5/8”	135	ultrasonic	5/8”	84
ultrasonic	3/4”	1,715	ultrasonic	3/4”	852
ultrasonic	1”	2,673	ultrasonic	1”	1,293
ultrasonic	1-1/2”	323	ultrasonic	1-1/2”	190
ultrasonic	2”	290	ultrasonic	2”	131
	Total	5,136	ultrasonic	3”	42
				Total	2,592
			Siemens	Size	Quantity
			magnetic	4”	6
			magnetic	6”	1
				Total	7

(End of Entire Scope of Work)

GENERAL NOTES

Customer's Initials _____

Contractor's Initials _____

Exhibit - C

Financial Terms and Conditions

Price for Optional Goods and Services

Measures are described in Exhibit B - Scope of Work

Mobilization and Equipment \$ _____

Balance of Purchase Price \$ _____

Total Purchase Price \$ _____

Payment Terms for District-wide Meter Replacement Project

The Work shall include all professional services; engineering; design; procurement; and installation of the infrastructure improvements indicated in Schedule B - Scope of Work. Customer shall pay contractor based on the payment schedule listed below:

Mobilization Costs: This will be _____% of the total project cost due within 30 days of contract execution.

Monthly draw schedule shall be based on Percent Complete per AIA standards.

Final payment of 5% (Retention) due upon customer acceptance.

Annual Service Fees related to Measurement and Verification (M&V)

The Annual Fees shown below reflect:

Annual Measurement and Verification Cost (3% Annual Escalation) \$ _____

EXHIBIT D

ABM Building Services LLC

Annual Water Meter Accuracy Agreement

Proposal Date	Proposal	Agreement Number	Page
			1 of 15

BY AND BETWEEN:

ABM Building Services LLC 3585 Corporate Court San Diego, CA 92123	AND	Rainbow Municipal Water District 3707 Old Highway 395 Fallbrook, CA 92028
Hereinafter: Contractor		Hereinafter: Customer

This Agreement provides for certain on-going support services and Water Meter Accuracy levels to be achieved in connection with the Work performed under the District-wide Meter Replacement Project Agreement Attachment B Scope of Work between the Contractor and the Customer located at the Rainbow Municipal Water District. This Agreement, together with the District-wide Meter Replacement Project Agreement between the Contractor and the Customer, shall be referred to, collectively, as the "Contract".

Contractor will provide the on-going support services set forth in Exhibits A, B, C, D, and, E and are subject to the terms and conditions set forth in Exhibit "A" hereto.

The annual fee for the meter accuracy guarantee will be \$ _____, with an annual escalation rate of 3.0% (if renewed by Customer) until 2028. There will be an automatic annual renewal of this Agreement unless earlier terminated in accordance with the terms and conditions of this Agreement; this Agreement can be terminated at any time as set forth in the "General Terms and Conditions" section of this Agreement. The annual fee is to be paid in _____ installments to the Contractor.

ABM Building Services, LLC

Rainbow Municipal Water District

Signature (Authorized Representative)	Signature (Authorized Representative)
Mark Newsome	Tom Kennedy
Name (Print)	Name (Print)
President	General Manager
Title	Title
Date	Date

Exhibit A

Definitions

1. **This Agreement:** shall mean this Annual Water Meter Accuracy Agreement.
2. **Annual Guarantee Period or Measurement Year:** shall mean the consecutive twelve (12) month period beginning with the M&V Commencement Date.
3. **AWWA:** is the American Water Works Association and reference is made to Water Meters – Selection, Installation, Testing, and Maintenance – Manual of Water Supply Practices M6, 4th edition, c1999
4. **Baseline:** is the description that defines the baseline water volume use and facilities, systems, or equipment operations and characteristics, and environmental conditions that are to be used as the benchmark for determining normalization factors to be used in the determination of Measured System Average Accuracy.
5. **Baseline Dates:** shall mean the start and end dates determining the Baseline. The Baseline Dates shall be July 2016 to June 2017.
6. **Initial Base Water Rates:** The “Base Water Rates” are the units of dollars per billed water unit developed from the Baselines and are identified in Exhibit D and shall be used by Contractor to calculate the initial Financial Benefit.
7. **Contractor** shall mean and include ABM Building Services, LLC, 3585 Corporate Court, San Diego, CA 92123.
8. **Customer** shall mean Rainbow Municipal Water District, 3707 Old Highway 395, Fallbrook, CA, 92028.
9. **Equipment** shall mean those meters and systems where operational cost savings and Financial Benefit will be realized.
10. **Financial Benefit:** The Financial Benefit, having units of dollars (\$), are those monies achieved through the increase in water meter accuracy, reduction in maintenance, materials, or materials replacement calculated using the Initial Base Water Rates from Exhibit “D” or the actual rates, whichever results in greater Financial Benefit.
11. **Guarantee Term:** The “Guarantee Term” shall be for ten (10) Years or until the termination of this agreement.
12. **M&V Commencement Date:** “M&V Commencement Date” shall be the first day of the month following both:
 - a. The signed Certificate of Final Completion of the Project in accordance with the Energy Services Agreement, and
 - b. Contractor’s receipt of all payments due and owing under the BES Project Agreement.
13. **Project:** The District-wide Meter Replacement Project performed by Contractor for the Customer pursuant to the BES Project Agreement.
14. **Measurement & Verification Plan:** Contractor’s process of preparing reports, taking on-site measurements, and/or any additional work to quantify Weighted Average Meter Accuracy for the purpose of meeting the Guaranteed Weighted Average Meter Accuracy as identified in Exhibit D. Contractor’s measurement and verification activities as identified in Exhibit E shall not include maintenance of the Project or record keeping related to such maintenance, which shall be the sole responsibility of Customer.
15. **Weighted Average Meter Accuracy:** is determined by the results of testing a statistically valid sample of water meters and following AWWA testing procedures. A single weighted average accuracy will be calculated and applied to the entire baseline meter population. Weighted average meter accuracy is identified in Exhibit “D”

General Terms and Conditions

1. Customer shall permit Contractor free and timely access to areas and equipment, and allow Contractor to start and stop the equipment as necessary to implement the Savings Measurement & Verification Plan. All work by Contractor under this Agreement will be performed during normal working hours; except that no work will interfere with Customer's or Customer's Client's activities.
2. The insurance required of the Contractor under this Agreement shall include, but not be limited to, the following types of insurance and coverages, and shall be written for not less than the following limits of liability;

TYPE OF INSURANCE	LIMIT OF LIABILITY	
<u>Commercial General Liability (CGL)</u>	\$4,000,000.00	General Aggregate
	\$2,000,000.00	Each Occurrence
	\$2,000,000.00	Products and Completed Operations
	\$2,000,000.00	Damage to Rented Premises – each occurrence
	\$2,000,000.00	Medical Expense (any one person)
	\$2,000,000.00	Personal and Adv. Injury
 <u>Automobile Liability</u>	\$5,000,000.00	Combined Single Limit (ea. accident)
 <u>Excess/Umbrella Liability</u>	\$2,000,000.00	Each Occurrence
	\$2,000,000.00	Aggregate
 <u>Workers Compensation</u>	Statutory	
	\$1,000,000.00	E.L. Each Accident
	\$1,000,000.00	E.L. Disease – Ea. Employee
	\$1,000,000.00	E.L. Disease – Policy Limit

- a. All liability insurance that is required of the Contractor, including, without limitation, the Commercial General Liability insurance, the Automobile Liability insurance, and the umbrella or excess insurance, shall name the Customer, including its officers, elected officials, employees, and volunteers, as Additional Insureds, but only to the extent required by and in accordance with the terms of this contract.
 - b. Certificates of insurance in an ACORD form and naming the Customer, including its officers, elected officials, employees, and volunteers, as Additional Insureds shall be filed with the Customer prior to commencement of this Agreement and thereafter upon renewal or replacement of each required policy of insurance. The Contractor agrees that the required insurance policies shall not be canceled or allowed to expire until at least 30 days' prior written notice has been given to the Customer.
 - c. Contractor's failure to meet the insurance requirements contained in this Agreement shall constitute a breach of contract.
3. CONTRACTOR AGREES TO INDEMNIFY AND DEFEND CUSTOMER, ITS OFFICERS, ITS AGENTS AND ITS EMPLOYEES (COLLECTIVELY, "PARTIES INDEMNIFIED") FROM AND AGAINST ANY AND ALL CLAIMS, SUITS, LOSSES, OR LIABILITIES FOR DAMAGES, PERSONAL INJURIES (INCLUDING DEATH) OR PROPERTY DAMAGES, AS WELL AS COSTS AND EXPENSES INCURRED IN THE DEFENSE THEREOF, INCLUDING REASONABLE ATTORNEY'S FEES AND COURT COSTS, ARISING OUT OF, OR RESULTING FROM THE PERFORMANCE OF THE WORK UNDER THIS AGREEMENT, PROVIDED THAT ANY SUCH CLAIM, SUIT, LOSS, OR LIABILITY FOR DAMAGES, PERSONAL INJURIES, PROPERTY DAMAGE, LOSS OR EXPENSE IS CAUSED, IN WHOLE OR IN PART, BY (1) ANY

INTENTIONAL OR NEGLIGENT ACT OR OMISSION OF THE CONTRACTOR OR THE CONTRACTOR'S AGENT, EMPLOYEE OR SUBCONTRACTOR OF ANY TIER, (2) THE FAULT OF THE CONTRACTOR OR THE CONTRACTOR'S AGENT, EMPLOYEE OR SUBCONTRACTOR OF ANY TIER, (3) THE BREACH OR VIOLATION OF A STATUTE, ORDINANCE, GOVERNMENTAL REGULATION, STANDARD, OR RULE BY THE CONTRACTOR OR THE CONTRACTOR'S AGENT, EMPLOYEE OR SUBCONTRACTOR OF ANY TIER, OR (4) THE BREACH OF CONTRACT OF THE CONTRACTOR OR THE CONTRACTOR'S AGENT, EMPLOYEE OR SUBCONTRACTOR OF ANY TIER. THE CONTRACTOR'S OBLIGATION TO INDEMNIFY, DEFEND, AND HOLD HARMLESS UNDER THIS AGREEMENT SHALL BE IN EFFECT REGARDLESS OF WHETHER OR NOT ANY SUCH CLAIM, SUIT, LOSS, OR LIABILITY FOR DAMAGES, PERSONAL INJURIES, PROPERTY DAMAGE, LOSS OR EXPENSE IS CAUSED IN PART BY THE NEGLIGENCE OF A PARTY OR PARTIES INDEMNIFIED HEREUNDER, EXCEPT THAT THE CONTRACTOR'S OBLIGATION SHALL BE LIMITED TO THE COMPARATIVE FAULT OF THE CONTRACTOR OR THE CONTRACTOR'S AGENT, EMPLOYEE OR SUBCONTRACTOR OF ANY TIER AS DETERMINED BY THE TRIER OF FACT.

4. Customer's Termination Right: Customer may terminate this Agreement upon thirty (30) days prior written notice. Should such termination occur on a date other than at the beginning of a Measurement Year, Contractor shall have no Guaranteed Energy Unit Saving obligations hereunder for a partial year. Contractor shall have no obligation to refund any monthly payments made hereunder through the date of any such early termination and customer shall have no obligation to make payments for future months.
5. **MISCELLANEOUS PROVISIONS:**
 - 5.1 The Customer is an organization exempt from California taxes. Customer shall not be responsible for sales, consumer, use, and similar taxes on labor, materials, equipment, systems, and other items purchased for the project which a California Municipal Water District would ordinarily be exempt.
 - 5.2 If any provision or part of this Agreement is held to be illegal, invalid, or unenforceable under any present or future law or regulation, such provision shall be fully severable and this Agreement shall be construed and enforced as if such illegal, invalid or unenforceable provision had never comprised a part of this Agreement. The remaining provisions of this Agreement shall remain in full force and effect and shall not be affected by the illegal, invalid, or unenforceable provision or by its severance.
 - 5.3 In the event of any suit or action arising out of or in connection with this Agreement, the prevailing party in such proceedings shall be entitled to recover reasonable attorney fees and court costs. For purposes of this paragraph, a party "prevails" if it recovers seventy-five percent (75%) or more of what it sought in such proceeding, or if it successfully defends against seventy-five percent (75%) or more of what was claimed against it. If neither percentage is met, the Parties shall bear their own respective attorneys' fees.
 - 5.4 Unless the context of this Agreement otherwise clearly requires, references to the plural include the singular, the term "including" is not limiting and the terms "hereof," "herein," "hereunder" and similar terms in this Agreement refer to the Agreement as a whole and not to any particular provision thereof, unless stated otherwise.
 - 5.5 **Notice.** All notices required to be given under this Agreement must be in writing unless otherwise noted. Any notice required or permitted to be given under this Agreement shall be deemed delivered, whether or not actually received, three days after it is deposited in the U.S. Mail, when sent by certified mail, return receipt requested, postage prepaid, and correctly addressed to the party at the address provided in this Agreement. Notice given in any other manner shall be deemed delivered when actually received. Either party may change its address for notice by giving notice of the change of address in accordance with this provision.

Exhibit B

Water Meter Accuracy Guarantee

1. The annual Weighted Average Meter Accuracy will be calculated by testing a statistically valid sample of water meters and following AWWA testing procedures, as described herein, which compare the Customer's Weighted Average Meter Accuracy during the baseline period before implementation of the Project ("Baseline Conditions") with that of the Weighted Average Meter Accuracy during the applicable Annual Guarantee Period. The Annual Guarantee Period for customer shall be the Baseline Dates as described in the Contract. These dates may be adjusted based on final project completion and Customer sign off of project completion. Increases in water rates will be adjusted with audits.
2. Except to the extent of any annual maintenance program with the Contractor, the Customer shall be solely responsible to maintain the Project in a manner consistent with the manufacturer's or Contractor's recommended maintenance schedules and procedures, maintain all records associated with such maintenance, and upon request of the Contractor, provide copies of such records thereof. Contractor may, if it deems necessary, inspect the Equipment from time to time to implement its Measurement & Verification Plan.
3. For the purpose of determining Weighted Average Meter Accuracy, Contractor shall prepare reports, perform water meter accuracy testing, and/or additional work as required by and detailed in its Measurement & Verification Plan.
4. The Customer acknowledges and consents to Contractor's right to monitor Weighted Average Meter Accuracy by conducting water meter accuracy testing. The Customer shall cooperate fully with any such measures instituted by Contractor pursuant to this Subsection. Contractor shall not institute any measures that unreasonably interfere with the business of Customer conducted at the Customer's location, or the Customer's Client's locations.
5. For the purpose of determining Weighted Average Meter Accuracy, Customer shall cooperate with Contractor by providing applicable information and maintenance records, changes in factors affecting equipment use, and/or additional information as requested by Contractor personnel.
6. Water Meter Accuracy Guarantee: Subject to changes in the Factors, Contractor guarantees that the Customer will realize total Weighted Average Meter Accuracy during the Guarantee Term of not less than the Guaranteed Weighted Average Meter Accuracy set forth in the Contract.
7. Guarantee Payment: Should the Customer's total Weighted Average Meter Accuracy during the Measurement Year be less than the Guaranteed Weighted Average Meter Accuracy for that year, Contractor guarantees that it shall pay to the Customer, within 30 days of the acceptance of the annual Weighted Average Meter Accuracy report, the pro-rated amount of the calculated penalty, not to exceed the **Maximum Annual Shortfall Allowable** set forth in the Contract. If in the judgment of the Customer, Customer would benefit from additional services or retrofits, Customer and Contractor may mutually agree upon such services or retrofits in lieu of the Guarantee Payment. Any such agreement for the purposes of this Agreement, such services or retrofits actually delivered by Contractor will be considered a Guarantee Payment for the Measurement Year.
8. Excess Savings:
 - a. For the Measurement Year, if the Weighted Average Meter Accuracy exceed the Weighted Average Meter Accuracy, the Excess Financial Benefit shall be the value of the difference and is added to the measurement year in which the excess Financial Benefit occurred. The Contractor will not and cannot by legislation apply excess savings to future or past years to offset any short falls.

- b. With respect to the Measurement Year in which Contractor has made a Guarantee Payment to the Customer, the negative Financial Benefit will be set to zero for the remainder of the contract term. The Financial Benefit resets to zero each Measurement Year whether there is excess Financial Benefit or a check paid for meter accuracy shortfall.
9. Changes in Factors Affecting Meter Accuracy
 - a. The Customer shall notify Contractor in writing within ten (10) business days of any significant change in any Factor that affects the Baselines as set forth herein. Contractor will determine the effect that any such change will have on the Base Rates and/or Weighted Average Meter Accuracy and present to the Customer a written analysis of the effects of the changes, together with proposed changes to the Baselines for the Customer's consideration and agreement. Agreed-upon changes that are long term or permanent will be reflected in a change to the Base Rates. Agreed-upon temporary changes that affect meter accuracy will be calculated and added to or subtracted from the corresponding Weighted Average Meter Accuracy.
 - b. If a significant change in any of the Factors involved in the Baseline occurs and the parties mutually agrees that it results in a reduction of Weighted Average Meter Accuracy, then the Weighted Average Meter Accuracy to be guaranteed by Contractor will be decreased by the same amount.
10. Customer and Contractor may from time to time desire to make changes to the Project infrastructure for the express purpose of increasing Weighted Average Meter Accuracy. It is agreed that these changes will only be made only with the written consent of both parties. The Baseline will not be adjusted to reflect any changes agreed to under this subparagraph without the mutual agreement of the parties, except that if Contractor elects to pay for the cost of any such changes that would not unreasonably interfere with the conduct of Customer's business, and the Customer does not consent to such changes, then the Baseline will be adjusted upward by the amount of savings projected from the changes.
11. Contractor has the right to charge the Customer for work required to assess the effect on water meter accuracy for any large-scale changes to equipment or infrastructure that require more than forty (40) hours per year to be spent in determining their effect on the Weighted Average Meter Accuracy. Such hours will be billed at current Contractor engineering rates. Current rates for engineering are based at \$136/hr starting in May 2018 and shall be escalated at 4% annually for the years following years guaranteed not to exceed \$208/hr in 2029. Before initiating such work, Contractor will notify the Customer in writing of the intent and cost associated with the work. The Customer will, within 45 days in writing, notify Contractor with permission to proceed or, alternatively at no charge, to stipulate the Weighted Average Meter Accuracy be used. If Contractor does not receive written notice within 45 days, the Weighted Average Meter Accuracy in question will be stipulated until such time that the Customer approves the work, as long as the scope of the work has not changed.
12. If the Customer fails to notify Contractor of changes in Factors affecting meter accuracy or fails to supply Contractor with requested information that is required in a timely manner, Weighted Average Meter Accuracy for the period will be equal to the Weighted Average Meter Accuracy for the previous period. If information for the period in question is supplied at a later date, the Weighted Average Meter Accuracy will be modified only if the Weighted Average Meter Accuracy for the period exceed the Weighted Average Meter Accuracy for the previous period of time.
13. The Customer agrees that Contractor shall have the right, with or without prior notice, to inspect the equipment to determine if the Customer is in compliance with its obligations as set forth herein. In the event that any inspection discloses that the Customer has failed on the date of the inspection to be in compliance with any items set forth herein, then the Guaranteed Weighted Average Meter Accuracy shall be assumed to have been achieved for the Measurement Year during which such failure shall have existed. Contractor shall provide in writing a detailed account

of each and every item of asserted non-compliance. If the Customer disagrees with the Contractor's determination, the two parties will attempt to amicably resolve the matter. If an amicable resolution cannot be reached, the dispute will be submitted to an agreed third-party mediator who will attempt to mediate an agreement between the Contractor and the Customer. If an agreement cannot be reached at mediation, then the Parties may litigate their dispute in the mandatory venue provided herein.

Exhibit C

Miscellaneous Terms and Conditions

I. Water Meter Accuracy Guarantee

ABM's Guarantee is based solely upon water meter accuracy as determined by testing a statistically valid random sample of water meters operating under normal conditions, which have been replaced pursuant to the contract. No guarantee, express or implied, is provided with respect to any other matters, including, without limitation, the following items (and the effects thereof):

- water system revenue
- water usage/consumption trends
- water rationing programs
- demographic and/or population shifts
- changes in the industrial or commercial base
- regulatory changes
- droughts, floods, rainfall, or other weather or climactic conditions
- water system pressure variations
- non-metered water usage
- failure to collect amounts due for billable consumption
- changes in monthly base charges, monthly allowable minimum base consumption, or monthly volume charges
- changes to water and sewer rate schedules
- water quality
- failure of the water system to meet governmental requirements
- improper maintenance or unsound usage of the Improvement Measures or any related equipment
- performance of automatic meter reading equipment

II. Water Meter Accuracy Shortfalls

In the event that the Measured Weighted System Accuracy in any Guarantee Year is less than the Guaranteed Accuracy required for that Guarantee Year, ABM shall, compensate Customer the amount of any such Shortfall, in such form as agreed to by the parties, limited by the value of the annual guarantee, within thirty (30) days. Resulting compensation shall be ABM's sole liability for any Shortfall in the Guaranteed Accuracy.

The Shortfall for the missed year is equal to:

*(Current year Guaranteed Accuracy – current year Measured Weighted System Accuracy) * (Penalty per Percentage Point Value)*

Where, the maximum annual Shortfall is limited to the (Maximum Annual Shortfall Allowable).

Penalty per Percentage Point of Accuracy Missed shall be **\$202,358.00**

Maximum Annual Shortfall Allowable shall be **\$414,834.00**. Provided further, in no event shall the penalty provided herein exceed the total installation, maintenance, and financing costs for the Water Meter Work under this Contract.

Weighted System Accuracy shall be calculated following the same methodology as the baseline Weighted System Accuracy as outlined in Exhibit D.

Exhibit D

Water Meter Accuracy Guarantee and Baseline Conditions

Contractor will guarantee the annual water meter accuracy of the meters replaced as part of this project as listed in Attachment A scope of Work of the Energy Services Agreement. Payments for shortfalls will be calculated based on the stipulated baseline billed water consumption and the weighted average meter accuracy as described below:

New Meter Accuracy Guarantee, Annual

Guarantee Period	Accuracy
Year 1 -10	96%

Baseline Conditions:

Billed Water Consumption:

The baseline billed annual water consumption for the water meters is 6,693,712 HCF, based on consumption data provided by Rainbow Municipal Water District from July 2016 to June 2017. This baseline consumption shall be used to calculate the annual financial benefit for the remainder of the guarantee term. Consumption by Meter size is listed in the following table:

Meter Size	Consumption	% of Total Consumption
5/8	33,598	0.5%
3/4	728,100	10.9%
1	1,993,667	29.8%
1-1/2	1,190,678	17.8%
2	2,024,542	30.2%
3	397,503	5.9%
4	312,466	4.7%
6	13,158	0.2%
Total	6,693,712	100.0%

Baseline Water Rates:

RMWD Water Rates 2017

Monthly Meter Charges:

The flat monthly meter fee is designed to collect, in the most equitable way, the fixed costs of operating the District. These costs include maintenance of meters, storage facilities, pump storage facilities, pump stations, pipelines, and customer service costs for meter reading and billing. The San Diego County Water Authority "SDCWA" Fixed Charge is based on the charges imposed by SDCWA and for which the District has no control.



Single Family, Multi-Family, Commercial, & Institutional

Meter Size	Fixed Charges			Total Charges
	RMWD O & M	SDCWA Fixed Pass Through	SDCWA Fixed	
5/8"	\$ 24.40	\$ 36.74	\$ 61.14	\$ 61.14
3/4"	\$ 24.40	\$ 36.74	\$ 61.14	\$ 61.14
1"	\$ 38.11	\$ 61.24	\$ 99.35	\$ 99.35
1 1/2"	\$ 72.37	\$ 122.48	\$ 194.85	\$ 194.85
2"	\$ 113.49	\$ 195.96	\$ 309.45	\$ 309.45
3"	\$ 243.68	\$ 428.68	\$ 672.36	\$ 672.36
4"	\$ 435.56	\$ 771.63	\$ 1,207.19	\$ 1,207.19
6"	\$ 894.68	\$ 1,592.26	\$ 2,486.94	\$ 2,486.94

AGRICULTURAL

Meter Size	Fixed Charges			Total Charges
	RMWD O & M	SDCWA Fixed Pass Through	SDCWA Fixed	
5/8"	\$ 44.32	\$ 36.74	\$ 81.06	\$ 81.06
3/4"	\$ 44.32	\$ 36.74	\$ 81.06	\$ 81.06
1"	\$ 71.29	\$ 61.24	\$ 132.53	\$ 132.53
1 1/2"	\$ 138.75	\$ 122.48	\$ 261.23	\$ 261.23
2"	\$ 219.70	\$ 195.96	\$ 415.66	\$ 415.66
3"	\$ 476.01	\$ 428.68	\$ 904.69	\$ 904.69
4"	\$ 853.76	\$ 771.63	\$ 1,625.39	\$ 1,625.39
6"	\$ 1,757.62	\$ 1,592.26	\$ 3,349.88	\$ 3,349.88

TSAWR

Meter Size	Fixed Charges			Total Charges
	RMWD O & M	SDCWA Fixed Pass Through	SDCWA Fixed	
5/8"	\$ 44.32	\$ 17.05	\$ 61.37	\$ 61.37
3/4"	\$ 44.32	\$ 17.05	\$ 61.37	\$ 61.37
1"	\$ 71.29	\$ 28.42	\$ 99.71	\$ 99.71
1 1/2"	\$ 138.75	\$ 56.84	\$ 195.59	\$ 195.59
2"	\$ 219.70	\$ 90.94	\$ 310.64	\$ 310.64
3"	\$ 476.01	\$ 198.93	\$ 674.94	\$ 674.94
4"	\$ 853.76	\$ 358.08	\$ 1,211.84	\$ 1,211.84
6"	\$ 1,757.62	\$ 738.90	\$ 2,496.52	\$ 2,496.52

Pumping Charges

Fixed Pumping Charges	
All Zones	\$ 9.51

Variable Pumping Charges

Pumping Zones	Rate/Unit	
Rainbow Heights	\$ 0.80	
ID U-1	\$ 0.50	* Pump Charges apply to those customers who live at higher elevations that require the water to be pumped in order to provide service. Cost increases in this area primarily due to increases in energy costs.
Vallecitos	\$ 0.28	
Northside	\$ 0.10	
Morro Tank	\$ 0.15	
Huntley	\$ 0.58	
Magee Tank	\$ 2.62	

Variable Charges

Customer Class	Rate/Unit
Single Family Residential	
Tier 1 = ≥ 10	\$ 3.42
Tier 2 = 11 to 26	\$ 3.60
Tier 3 = 27 +	\$ 3.94
Multi Family	\$ 3.52
Commercial	\$ 3.63
Institutional	\$ 3.70
Construction	\$ 4.44

*1 unit of water = 748 gallons

Variable Charges

Customer Class	Rate/Unit
Agriculture w/Residence	
Tier 1 = ≥ 10	\$ 3.42
Tier 2 = 11 to 26	\$ 3.60
Tier 3 = 27 +	\$ 3.35
Agriculture w/o Residence	\$ 3.35
TSAWR Domestic	
Tier 1 = ≥ 10	\$ 3.42
Tier 2 = 11 to 26	\$ 3.60
Tier 3 = 27 +	\$ 2.87
TSAWR Commercial	\$ 2.87

Baseline Meter Accuracy:

Baseline meter accuracy was determined by testing a random sample of meters currently in service. A total of 333 meters were tested by Rainbow Municipal Water District. The breakdown of tested meters by meter size is as follows:

Meter Size	Quantity
5/8 inch	4
3/4 inch	91
1 inch	81
1-1/2 inch	62
2 inch	62
3 inch	22
4 inch	11
6 inch	0

Each meter was tested per AWWA guidelines at multiple flow rates representing low, medium, and high flow scenarios. The accuracy at each flow rate was then weighted by the AWWA recommended ratio of 15% low flow, 70% medium flow, and 15% high flow. The individual flow accuracies were then added together to determine the weighted accuracy of each individual meter. Following is a sample calculation:

Individual Weighted Meter Accuracy

$$IWMA = (LFWF * LFA) + (MFWF * MFA) + (HFWF * HFA)$$

Where:

- IWMA* = Individual Weighted Average Meter Accuracy, in percent.
- LFWF* = Low flow rate weighting factor = 0.15 per AWWA standard M6.
- LFA* = Low flow accuracy in percent, per meter testing data.
- MFWF* = Medium flow rate weighting factor = 0.70 per AWWA standard M6.
- MFA* = Medium flow accuracy in percent, per meter testing data.
- HFWF* = High flow rate weighting factor = 0.15 per AWWA standard M6.
- HFA* = High flow accuracy in percent, per meter testing data.

The sample set was then sorted by meter size and the results averaged to determine an average tested accuracy per meter size. The average tested meter accuracy by meter size is listed in the table below:

Meter Size	Baseline Overall Weighted Accuracy
5/8 inch	90.5%
3/4 inch	95.2%
1 inch	92.2%
1-1/2 inch	91.5%
2 inch	94.4%
3 inch	97.0%
4 inch	97.8%
6 inch	100%

The overall weighted system accuracy was calculated by weighing the individual tested meter average accuracies by the meter consumption for the entire meter population (by meter size) and adding up the individual weighted accuracies. Following is a sample calculation:

Overall Weighted System Accuracy

$$OWSA = (MSAA1 * MSC1) + (MSAA2 * MSC2) + (MSAA3 * MSC3) + (MSAA4 * MSC4) + \dots + (MSAA_n * MSC_n)$$

Where:

- OWSA = Overall Weighted System Accuracy, in percent.
- MSAA = Meter Size Average Accuracy, in percent.
- MSC = Meter Size Consumption, in percent.
- n = The last meter size in the sample set.

Using the formulas above, the overall Baseline Weighted System Accuracy was calculated to be 93.6%

Adjustments to Guaranteed Performance- If all or a portion of the proposed scope of work cannot be implemented due to site conditions or Customer requirements, Guaranteed Performance will be adjusted equitably.

Financial Summary

Using the above initial Baseline Rates, Consumption, Weighted System Accuracy, and the annual Guaranteed Weighted System Accuracy, the projected Financial Benefit, Operational Savings, and Capital Avoidance Savings for Measurement Year One is **\$814,434.00**.

The breakdown is as follows:

- 1. **Meter Accuracy Financial Benefit** **\$414,834.00**
- 2. **Agreed Upon Operational & Maintenance Savings** **\$399,600.00**

Meter Accuracy Financial Benefit shall be calculated using the Base Water Rates or actual water rates, whichever results in greater Financial Benefit. Financial Benefit will be calculated at the end of each Agreement year using baseline billing information and using the same methodology as was employed to determine the Financial Benefit in the Analysis Report.

Projected Operational / Maintenance Savings

The following dollar savings/cost avoidance values have been agreed to by both parties and will occur as a result of the installation of the project. The sum of these savings/cost avoidance values for each guarantee year will be added to the Financial Benefit for each specific year as noted and will therefore be deemed achieved upon execution of this Agreement

Fiscal Year	O&M Savings
Year 1	\$ 399,600.00
Year 2	\$ 399,600.00
Year 3	\$ 399,600.00
Year 4	\$ 399,600.00
Year 5	\$ 399,600.00
Year 6	\$ 399,600.00
Year 7	\$ 399,600.00
Year 8	\$ 399,600.00
Year 9	\$ 399,600.00
Year 10	\$ 399,600.00

Exhibit E

Measurement & Verification

Measurement & Verification Plan: Through this plan, the guaranteed accuracy of the water meters included in the installed scope of work will be validated. The objective of the plan is to quantify the Annual Measured Weighted System Accuracy and compare it to the specific Guaranteed Weighted System Accuracy.

ABM's Guarantee is based solely upon water meter accuracy as determined by testing a statistically valid random sample of water meters operating under normal conditions, which have been replaced pursuant to the contract. No guarantee, express or implied, is provided with respect to any other matters, including, without limitation, the following items (and the effects thereof):

- water system revenue
- water usage/consumption trends
- water rationing programs
- demographic and/or population shifts
- changes in the industrial or commercial base
- regulatory changes
- droughts, floods, rainfall, or other weather or climactic conditions
- water system pressure variations
- non-metered water usage
- failure to collect amounts due for billable consumption
- changes in monthly base charges, monthly allowable minimum base consumption, or monthly volume charges
- changes to water and sewer rate schedules
- water quality
- failure of the water system to meet governmental requirements
- improper maintenance or unsound usage of the Improvement Measures or any related equipment
- performance of automatic meter reading equipment

Baseline weighted average meter accuracy is determined by the results of testing a statistically valid sample of meters and following AWWA testing procedures. A single Weighted System Accuracy was calculated and applied to the entire meter population.

Baseline Weighted System Accuracy was calculated to be 93.6%

Guaranteed new meter accuracy is as follows:

Term	Guaranteed New Meter Accuracy
Years 1-10	96%

The difference between the guaranteed Weighted System Accuracy and the baseline Weighted System Accuracy will be applied to the baseline billed consumption (provided by RMWD) to calculate the potential financial benefit to Rainbow MWD. The calculation will be performed per account to apply the increase in accuracy to the monthly baseline consumption to determine the potential total annual financial benefit.

The calculated potential total annual financial benefit as described in Exhibit C of the Contract will be the maximum ABM annual financial obligation to Rainbow MWD.

Annually, ABM will test a statistically valid random sample of meters to determine the weighted average new meter accuracy. The quantity of meters tested is outlined in the following table:

Size	5/8"	3/4"	1"	1-1/2"	2"	3"	4"	6"
Total Population	219	2,567	3,966	513	421	42	6	1
Test Freq.	Annual	Annual	Annual	Annual	Annual	Annual	Annual	Annual
Sample Test Size	36	42	42	39	39	21	6	1

Calculation methodologies as listed above in Exhibit D shall be used to determine individual and overall weighted meter accuracies. A single Weighted System Accuracy will be calculated as described in Exhibit D of the Contract and applied to the entire meter population. Meter sizes below 2" will be removed from service and tested on a calibrated test bench. Meter sizes above 2" will be field tested in place.

Repeat measurements and reporting will be provided annually if Customer renews annual M&V contract. Rainbow Municipal Water District and ABM agree that the number of meters shown in the Bundled Energy Solutions Project Agreement Schedule B Scope of Work constitutes the entire system eligible for efficiency upgrades and therefore influences increased billable gallons.

Meter accuracy guarantee is contingent upon Customer providing required manufacturer routine and preventative maintenance on meters and AMR/AMI system to include annual software and maintenance agreements.

BOARD OF DIRECTORS

July 24, 2018

SUBJECT

CONSIDER EXTENSION OF PARTIAL SEWER FEE WAIVER FOR 2017 LILAC FIRE VICTIMS

BACKGROUND

In December 2017, the Lilac fire devastated our community, burning down nearly 100 homes. In early 2018 the Board of Directors approved a program for allowing sewer customers whose homes had burned to apply for relief from the sewer fees while their homes were being rebuilt. We have had only two single family residents apply for relief but the bulk of the requests were from the Rancho Monserate mobile home park where 74 homes were destroyed.

DESCRIPTION

As part of the Board action earlier this year, the Board approved the fee waiver but requested that the program be reconsidered after six months. Without Board action the fee waiver policy will expire this month. As of now, about half of the homes in Rancho Monserate have been replaced and the management of the park expects all to be replaced by October 2018. Each month District staff communicates with Rancho Monserate officials about how many are still unoccupied and prorates the fee accordingly. The amount of the fee waiver is getting smaller each month with an anticipated end date sometime this fall.

POLICY/STRATEGIC PLAN KEY FOCUS AREA

Strategic Focus Area Four: Fiscal Responsibility – The limited term fee waiver and regular board input on any extensions will prevent fee waivers from being extended beyond the intended period

Strategic Focus Area Five: Customer Service – the fee waiver program is intended to improve the experience of those who were victims of the Lilac fire.

BOARD OPTIONS/FISCAL IMPACTS

The fiscal impact on overall wastewater revenues is low – about \$12,000 for the last six months. Extending the program another six months is expected to reduce revenues by less than \$10,000 depending on when all of the units at Rancho Monserate are rebuilt.

Board Options:

1. Extend the wastewater service fee waiver program for an additional six months
2. End the fee waiver program at this time

ENVIRONMENTAL

In accordance with CEQA guidelines Section 15378, the action before the Board does not constitute a "project" as defined by CEQA and further environmental review is not required at this time.

STAFF RECOMMENDATION

Staff recommends Option 1.



Tom Kennedy
General Manager

July 24, 2018

BOARD OF DIRECTORS

July 24, 2018

SUBJECT

DISCUSSION AND POSSIBLE ACTION REGARDING STUDIES TO ADVANCE BONSALL BASIN DESALTER IMPLEMENTATION

BACKGROUND

Rainbow Municipal Water District (District) provides water to approximately 8,100 meter accounts, and currently receives all its water from the San Diego County Water Authority (SDCWA) and the Metropolitan Water District of Southern California (MWD). Developing an alternative source of potable water is a strategic focus area in the Strategic Plan.

The District has completed several studies of the Bonsall Basin with an objective of developing a reliable local water supply based on recovery of imported water return flows. In October 2017 the Board approved a study by DUDEK to further investigate the feasibility of developing a new water supply from imported water return flows within the Bonsall Basin. The Board requested periodic reviews of the current findings of the study to determine whether or not to proceed with further investigation.

DESCRIPTION

DUDEK has completed an investigation into the volume of recoverable imported water return flows in the Gird Road Watershed, one of seventeen watersheds that feed the Bonsall Basin within the District's service area. Approximately 2,270 acre feet of water per year (AFY) is delivered to the Gird Road Watershed via the District's distribution system. Roughly 18% of the delivered water contributes to the imported return flow within the Gird Road Watershed with about 200 AFY contributed from septic system recharge and 200 AFY from applied irrigation. When scaled up for the entire Rainbow Municipal Water District service area, the estimated imported water return flows could amount to as much as 2,100 AFY. However, conservatively, return flows could be as little as 1,300 AFY.

Treatment of the imported water return flow for potable use would require a substantial capital investment to construct extraction wells, a brackish water desalter, and a brine disposal line or brine treatment plant with zero liquid discharge. These capital investments would be affected by economies of scale. The May 2017 Indirect Potable Reuse Preliminary Evaluation by RMC stated that a baseline desalter project with a 3,326 AFY supply would result in a \$68,772,000 capital investment. This results in a cost of \$2,128 per acre foot of water produced. The estimated 1,300 AFY supply from imported water return flows is not substantial enough to warrant moving forward with a project because a smaller scale project would result in a higher unit cost of water. Staff recommends pausing the feasibility study until additional water rights can be acquired.

POLICY/STRATEGIC PLAN KEY FOCUS AREA

Strategic Focus Area One: Water Resources. The Bonsall Basin study helps refine the feasibility of creating a local supply of potable water through desalination of imported water return flow. This may have the potential to broaden the District’s supply beyond strictly imported water.

BOARD OPTIONS/FISCAL IMPACTS

To date, the District has spent approximately \$70,000. The total expected budget for this study, if continued, is \$602,903. These funds are available in the Capital Reserves.


- 1) Advise staff to discontinue the feasibility study until other water rights have been established.
- 2) Authorize staff to continue the feasibility study with Dudek.
- 3) Provide other direction to staff.

ENVIRONMENTAL

In accordance with CEQA guidelines Section 15378, the action before the Board does not constitute a “project” as defined by CEQA and further environmental review is not required at this time.

STAFF RECOMMENDATION

Staff recommends Option 1.



Steve Strapac
District Engineer

July 24, 2018



BOARD ACTION

BOARD OF DIRECTORS

July 24, 2018

SUBJECT

DISCUSSION AND POSSIBLE APPOINTMENT OF TREASURER

BACKGROUND

Per the administrative code section 5.03.070 Investment Policy Delegation of Authority – on an annual basis the District’s idle funds are delegated to the Treasurer by the Board of Directors who shall thereafter assume full responsibility for those transactions until the delegation of authority is revoked or expires.

The delegation of investment authority is limited to one year and will be reviewed annually by the Board of Directors. (California Government Code 53600)

Further, in section 3.01.020.01 – The Board of Directors shall hold an organizational meeting at its regular meeting in January of the odd numbered year or as determined by the Board. At this meeting the Board will elect a President and Vice President from among its members to serve until the next biannual meeting and may appoint the Executive Assistant as the Board’s secretary and the Finance Manager as its Treasurer.

DESCRIPTION

The last delegation of authority occurred at the Board’s bi-annual organizational meeting held in January 2017 selecting the Finance Manager as the Treasurer. The authority is limited to one year and has expired. A new delegation of authority selecting a Treasurer is needed to comply with the Investment policy section 5.03.070.

POLICY/STRATEGIC PLAN KEY FOCUS AREA

Strategic Focus Area Four: Fiscal Responsibility – adhering to the investment policy of the District.

BOARD OPTIONS/FISCAL IMPACTS

The Board may appoint new officer and/or make Committee assignments.

STAFF RECOMMENDATION

Staff recommends delegating the authority to the Finance Manager as the Treasurer of the District.

Vanessa Martinez
Finance Manager

July 24,2018

BOARD OF DIRECTORS

July 24, 2018

SUBJECT

DISCUSSION AND POSSIBLE ACTION TO ADOPT RESOLUTION NO. 18-12, ADOPTING PART-TIME EMPLOYEE BENEFITS POLICY

BACKGROUND

The District has not employed part-time employees in a number of years. However, the District has recently approved a part-time position, and may have a need for part-time employees from time to time in the future.

The District has met and conferred with Rainbow Employees Association and Rainbow Association of Supervisors and Confidential Employees and all parties have agreed that part-time employees are not included in these bargaining units, and therefore are not covered by the memoranda of understanding (MOUs) between the District and the bargaining units.

Since part-time employees are not covered by the benefits outlined in the MOUs, the District needs a benefits policy that covers part-time employees in order to comply with paid sick leave laws, CalPERS rules, and other regulations governing the 457b and 401a deferred compensation plans.

DESCRIPTION

Resolution 18-12 will establish a standard policy for employment benefits that will be offered to part-time employees.

POLICY/STRATEGIC PLAN KEY FOCUS AREA

Strategic Focus Area Three: Workforce Development
Strategic Focus Area Four: Fiscal Responsibility

BOARD OPTIONS/FISCAL IMPACTS

There is no direct fiscal impact. The indirect impact is the cost of providing the benefits, which will be included in the budgets presented for the Board's approval on an annual bases whenever part-time positions are approved as part of the annual staffing plan.

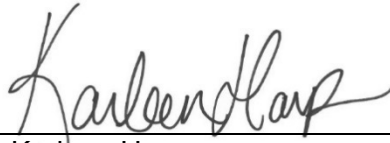
- Option 1) Approve Resolution 18-12
- Option 2) Do not approve Resolution 18-12

ENVIRONMENTAL

In accordance with CEQA guidelines Section 15378, the action before the Board does not constitute a "project" as defined by CEQA and further environmental review is not required at this time.

STAFF RECOMMENDATION

Staff recommends Option 1.



Karleen Harp
Human Resources Manager

July 24, 2018

RESOLUTION NO. 18-12

**RESOLUTION OF THE BOARD OF DIRECTORS OF THE
RAINBOW MUNICIPAL WATER DISTRICT
ADOPTING PART-TIME EMPLOYEE BENEFITS POLICY**

WHEREAS, the District will need to employ part-time employees from time to time; and

WHEREAS, the District has met and conferred with the Rainbow Employees Association and Rainbow Association of Supervisors and Confidential Employees, and all parties have agreed that part-time employees are not included in these bargaining units; and

WHEREAS, part-time employees are not covered by the benefits outlined in any memorandum of understanding of any currently established bargaining unit; and

WHEREAS, the Board of Directors recognizes that certain employment benefits are required by statute for part-time employees; and

WHEREAS, the Board of Directors desires to offer employment benefits to part-time employees that will enhance the District's ability to recruit and retain qualified part-time employees; and

NOW, THEREFORE, IT IS HEREBY RESOLVED, DETERMINED AND ORDERED that the Board of Directors of Rainbow Municipal Water District adopts Resolution No. 18-12, approving the Part-Time Employee Benefits Policy outlined in Exhibit A attached hereto, which will become effective immediately.

PASSED AND ADOPTED at a regular meeting of the Board of Directors of Rainbow Municipal Water District held on the 24th day of July 2018 by the following vote, to wit:

**AYES:
NOES:
ABSENT:
ABSTENTIONS:**

Helene Brazier, Board President

ATTEST:

Dawn Washburn, Board Secretary

PART-TIME EMPLOYEE BENEFITS POLICY

All Part-Time Employees:

- **Paid Time Off (PTO)** – Part-time positions begin accruing PTO at a rate of 3 hours per pay period with an annual accrual cap of 48 hours, to be used for vacation, personal illness, kin-care or bereavement purposes. Hours may be carried over to the next year, but accruals may not exceed 48 hours at any time.
- **Paid Holidays** -- Part-time employees will be paid for the hours they normally would have been scheduled to work on any day the District office is closed due to a holiday or observed holiday.
- **Computer Purchase Program** – Part-time employees will be eligible to participate in the District's Computer Purchase Assistance loan program.
- **Employee Assistance Plan** – Part-time employees will be covered on the District's Employee Assistance Plan at the District's expense.
- **457(b) Deferred Compensation Plan** – Part-time employees are eligible to participate in this tax deferred retirement savings plan. Participation for part-time employees is at the employee's own expense with no employer match.
- **Heath, Dental, Vision, Disability, Life and AD&D Insurance** – Part-time employees are not eligible for these benefits.

Level 1 Part-Time Employees: includes any part-time employee who is regularly scheduled for less than 19 hours per week or 38 hours per pay period.

- **Tuition Reimbursement** -- The District will reimburse Level 1 part-time employees up to \$625 per year for approved educational costs.
- **401(a) Deferred Compensation Plan** – Part-time employees are eligible to participate in this retirement savings plan, with a \$35 employer match per pay period.
- **CalPERS** (Public Employees Retirement System) – Level 1 part-time employees are not eligible for CalPERS membership unless they were previously a member before becoming a part-time employee, and meet all Cal-PERS participation rules.

Level 2 Part-Time Employees: includes any part-time employee who is regularly scheduled for 20-29 hours per week or 40-58 hours per pay period.

- **Tuition Reimbursement** -- The District will reimburse Level 2 part-time employees up to \$1,250 per year for approved educational costs.
- **401(a) Deferred Compensation Plan** – Part-time employees are eligible to participate in this retirement savings plan, with a \$50 employer match per pay period.
- **CalPERS** (Public Employees Retirement System) – Level 2 employees who are Classic CalPERS Members may participate at the 2.5% at 55 retirement formula with an 8% employee contribution, and New/PEPRA members will be eligible for membership at the 2% at 62 retirement formula at the employee contribution rate determined by CalPERS.

BOARD OF DIRECTORS

July 24, 2018

SUBJECT

DISCUSSION AND POSSIBLE ACTION TO ADOPT ORDINANCE NO. 18-16 AMENDING AND UPDATING ADMINISTRATIVE CODE SECTION 2.01.010

BACKGROUND

At the May 22, 2018 Board meeting, Director Brazier directed staff to prepare appropriate revisions to the Administrative Code pertaining to terms of conduct based on feedback she received on a matter that occurred at a recent committee meeting.

Per Director Brazier's request, staff reviewed Administrative Code Section 2.01.010 – Code of Ethics Policy and made some suggested revisions for Board consideration at their June 26, 2018 meeting.

DESCRIPTION

At their June 26, 2018 meeting, the Board decided to review the policy in greater detail and bring any comments and input to the July 24, 2018 for consideration and possible adoption of a new policy.

POLICY/STRATEGIC PLAN KEY FOCUS AREA

Strategic Focus Area Five: Customer Service
Strategic Focus Area Six: Communication

BOARD OPTIONS/FISCAL IMPACTS

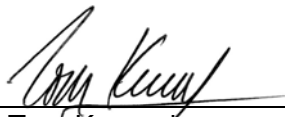
- 1) Adopt Ordinance No. 18-16 Amending and Updating Administrative Code Section 2.01.010.
- 2) Adopt Ordinance No. 18-16 Amending and Updating Administrative Code Section 2.01.010 with revisions.
- 3) Direct staff to provide a revised policy at the next Board meeting for consideration and approval to include any additional changes provided at this meeting.
- 4) Do not adopt Ordinance No. 18-16 and to leave the policy as is without revisions.

ENVIRONMENTAL

In accordance with CEQA guidelines Section 15378, the action before the Board does not constitute a "project" as defined by CEQA and further environmental review is not required at this time.

STAFF RECOMMENDATION

Staff supports Board direction.



Tom Kennedy
General Manager

July 24, 2018

Ordinance No. 18-16

**Ordinance of the Board of Directors of the Rainbow Municipal Water District
Amending the Administrative Code
Chapter 2.01.010 – Code of Ethics Policy**

WHEREAS, the Rainbow Municipal Water District has, from time to time, adopted various rules and regulations for the operation of the District; and

WHEREAS, certain of those rules and regulations require updating to reflect best practices, as well as changes in applicable laws; and

WHEREAS, the Board of Directors has determined that changes in the rules or regulations of the District shall occur solely by amendment to the Administrative Code;

NOW, THEREFORE,

BE IT ORDAINED by the Board of Directors of Rainbow Municipal Water District as follows:

1. The following rules and regulations of the District, collected are hereby adopted and shall be incorporated into the Administrative Code, consisting of:

Chapter 2.01.010 – Code of Ethics Policy

2. The General Manager is hereby directed to update the Administrative Code to reflect the approval of these rules and regulations, and to assign or reassign the numbering of the Administrative Code as necessary to codify these rules and regulations as amended.

3. This ordinance shall take effect immediately upon its adoption on this 24th day of July 2018.

**AYES:
NOES:
ABSTAIN:
ABSENT:**

Helene Brazier, Board President

ATTEST:

Dawn Washburn, Board Secretary

Section 2.01.010 Code of Ethics Policy

The Board of Directors of the Rainbow Municipal Water District is committed to providing excellence in leadership that results in the provision of the highest quality of services to its constituents. In order to assist in the governing of the behavior between and among members of the Board of Directors, Staff and Public, the following rules ~~shall~~should be observed.

The dignity, style, values and opinions of each Director ~~shall~~should be respected.

Responsiveness and attentive listening in communication is encouraged.

The Board ~~shall~~should ~~have as its two (2) main priorities~~focus on the provision of service to its constituents and the proper management of the District.

The primary responsibility of the Board of Directors is the formulation and evaluation of policy. Routine matters concerning the operational aspects of the District are to be delegated to the General Manager ~~of the District~~.

Directors ~~shall~~should commit themselves to emphasizing the positive by, avoiding double talk, hidden agendas, gossip, backbiting, partisan political discussions, and other negative forms of interaction.

Directors ~~shall~~should commit themselves to focusing on issues and not personalities. The presentation of the opinions of others ~~shall~~should be encouraged. Cliques and voting blocks based on personalities rather than issues ~~shall~~should be avoided.

Differing viewpoints are healthy in the decision-making process. Individuals have the right to disagree with ideas and opinions, but without being disagreeable. Once the Board of Directors takes action, Directors ~~shall~~should commit to supporting said action and ~~not to~~ create barriers to the implementation of said action.

Directors ~~shall~~should practice the following procedures:

- In seeking clarification on ~~informational~~ items, Directors will work directly with the General Manager to obtain information ~~needed~~ to supplement, upgrade or enhance their knowledge and understanding to improve legislative decision-making.
- In handling complaints from residents, property owners, and employees of the District, said complaints ~~shall~~should be referred directly to the General Manager.
- In handling items related to safety, concerns for safety, or hazards ~~shall~~should be reported to the General Manager or to the District Office. Emergency situations ~~shall~~should be dealt with ~~immediately~~ by seeking appropriate assistance immediately.
- In seeking clarification for policy related concerns, especially those involving personnel, legal action, land acquisition and development, finances, and

programming, said concerns ~~shall~~ be referred directly to the General Manager.

- When approached by District personnel concerning specific District policy, Directors ~~shall~~ direct inquiries to the ~~employee's immediate supervisor~~ General Manager. If the General Manager is the subject of the concern of the employee, the Director ~~shall~~ contact the Human Resources Manager. The chain of command ~~shall~~ be followed.

The work of the District is a team effort. All individuals ~~shall~~ work together in the collaborative process, assisting each other in conducting the affairs of the District.

When responding to constituent requests and concerns, Directors ~~shall~~ be courteous, responding to individuals in a positive manner and routing their questions ~~through appropriate channels and~~ to the General Manager.

Any member of the public who attends a Board or Standing Committee meeting ~~shall~~ be treated with respect and given deference as they provide input to the Board or Standing Committee. All parties who wish to speak ~~shall~~ be given the opportunity to do so in accordance with regular procedures outlined in the agenda for each meeting. Directors and ~~s~~ Standing Committee members ~~shall~~ not interact with any member of the public in a dismissive or disrespectful manner at any meeting.

Directors should develop a working relationship with the General Manager wherein current issues, concerns and District projects can be discussed comfortably and openly.

Directors should function as a part of the whole. Staff lobbying of Board ~~M~~ members on a particular position on an issue is prohibited.

Directors are responsible for monitoring the District's progress.

Section 2.01.010.1 Non-Partisan Board Policy

The Board of Directors of the Rainbow Municipal Water District is a non-partisan elected body. Decisions made by the Board ~~shou~~ not be made on the basis of party affiliation of any Director or whether a particular political party has a stated position on the matter under deliberation by the Board. When in ~~the~~ Board chambers, all Directors and ~~Standing~~ Committee members will leave their party affiliations outside of the room and refrain from partisan political discussions. All decisions ~~shou~~ be made in terms of what is best for the constituents of the District, not on the basis of what is good for any political party.

Section 2.01.010.2 Climate Change Policy

While there may be some who disagree with the root cause of the climate changes ~~that are~~ currently being observed globally, ~~T~~the Board of Directors ~~of the District shou~~ follow the science that forecasts climate change. Since the mission of the District is to ensure a reliable supply of water for our constituents, failure to monitor and use the best available scientific forecasts for future water supply could put our constituents at risk. The root cause of climate change is immaterial – the Board must focus on how science can inform the

Board as to the impacts of climate change will have on future water supply conditions and take appropriate actions to prevent harm to our constituents.

Section 2.01.010.3

Code of Ethics for Board Appointed Members of Standing Committees

All appointed members of the District's ~~s~~Standing ~~e~~Committees should all conform to the same guidelines described above. All appointed members of the District's ~~s~~Standing ~~e~~Committees represent the Board of Directors on these committees and as such are held to the same expectations.

Section 2.01.010.4

Failure to Follow Code of Ethics Policy

Any Director who fails to follow this Code of Ethics policy is subject to censure by a vote of the Board of Directors. Any member of any Standing Committee who fails to follow this Code of Ethics Policy may have their appointment to the ~~Standing~~ Committee revoked by a vote of the Board of Directors.

Section 2.01.010

Code of Ethics Policy

The Board of Directors of the Rainbow Municipal Water District is committed to providing excellence in leadership that results in the provision of the highest quality of services to its constituents. In order to assist in the governing of the behavior between and among members of the Board of Directors, Staff and Public, the following rules should be observed.

The dignity, style, values and opinions of each Director should be respected.

Responsiveness and attentive listening in communication is encouraged.

The Board should focus on the provision of service to its constituents and the proper management of the District.

The primary responsibility of the Board of Directors is the formulation and evaluation of policy. Routine matters concerning the operational aspects of the District are to be delegated to the General Manager.

Directors should commit themselves to emphasizing the positive by avoiding double talk, hidden agendas, gossip, backbiting, partisan political discussions, and other negative forms of interaction.

Directors should commit themselves to focusing on issues, not personalities. The presentation of the opinions of others should be encouraged. Cliques and voting blocks based on personalities rather than issues should be avoided.

Differing viewpoints are healthy in the decision-making process. Individuals have the right to disagree with ideas and opinions, but without being disagreeable. Once the Board of Directors takes action, Directors should commit to supporting said action and not create barriers to the implementation of said action.

Directors should practice the following procedures:

- In seeking clarification on items, Directors will work directly with the General Manager to obtain information to supplement, upgrade or enhance their knowledge and understanding to improve legislative decision-making.
- In handling complaints from residents, property owners, and employees of the District, said complaints should be referred directly to the General Manager.
- In handling items related to safety, concerns for safety, or hazards should be reported to the General Manager or to the District Office. Emergency situations should be dealt with by seeking appropriate assistance immediately.
- In seeking clarification for policy related concerns, especially those involving personnel, legal action, land acquisition and development, finances, and programming, said concerns should be referred directly to the General Manager.

- When approached by District personnel concerning specific District policy, Directors should direct inquiries to the General Manager. If the General Manager is the subject of the concern of the employee, the Director should contact the Human Resources Manager. The chain of command should be followed.

The work of the District is a team effort. All individuals should work together in the collaborative process, assisting each other in conducting the affairs of the District.

When responding to constituent requests and concerns, Directors should be courteous, responding to individuals in a positive manner and routing their questions to the General Manager.

Any member of the public who attends a Board or Standing Committee meeting should be treated with respect and given deference as they provide input to the Board or Standing Committee. All parties who wish to speak should be given the opportunity to do so in accordance with regular procedures outlined in the agenda for each meeting. Directors and Standing Committee members should not interact with any member of the public in a dismissive or disrespectful manner at any meeting.

Directors should develop a working relationship with the General Manager wherein current issues, concerns and District projects can be discussed comfortably and openly.

Directors should function as a part of the whole. Staff lobbying of Board Members on a particular position on an issue is prohibited.

Directors are responsible for monitoring the District's progress.

Section 2.01.010.1 Non-Partisan Board Policy

The Board of Directors of the Rainbow Municipal Water District is a non-partisan elected body. Decisions made by the Board should not be made on the basis of party affiliation of any Director or whether a particular political party has a stated position on the matter under deliberation by the Board. When in Board chambers, all Directors and Standing Committee members will leave their party affiliations outside of the room and refrain from partisan political discussions. All decisions should be made in terms of what is best for the constituents of the District, not on the basis of what is good for any political party.

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BOARD OF DIRECTORS

July 24, 2018

SUBJECT

DISCUSSION AND POSSIBLE ACTION TO APPOINT JULIE JOHNSON AS A MEMBER OF THE COMMUNICATIONS AND CUSTOMER SERVICE COMMITTEE

BACKGROUND

In April 2018, a RMWD customer, Julie Johnson, notified the District of her interest in serving on the Communications and Customer Service Committee. Ms. Johnson has attended a few meetings to introduce herself to the committee members as well as observe the meetings prior to deciding to serve as a member.

DESCRIPTION

At their July 12, 2018 meeting, the Communications and Customer Service committee members approved a motion recommending to the Board that Ms. Johnson be appointed to serve as a member of the committee. The committee currently has member vacancies to fill.

POLICY/STRATEGIC PLAN KEY FOCUS AREA

Strategic Focus Area Six: Communication

BOARD OPTIONS/FISCAL IMPACTS

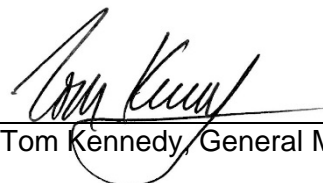
The Board makes the appointments per Administrative Code Section 2.09 - Committees.

ENVIRONMENTAL

In accordance with CEQA guidelines Section 15378, the action before the Board does not constitute a "project" as defined by CEQA and further environmental review is not required at this time.

STAFF RECOMMENDATION

Staff recommends the Board appoint Julie Johnson to serve as a member of the Communications and Customer Service Committee.



Tom Kennedy, General Manager

July 24, 2018

BOARD OF DIRECTORS

July 24, 2018

SUBJECT

CALIFORNIA SPECIAL DISTRICTS ASSOCIATION (CSDA) BOARD OF DIRECTORS SEAT A ELECTION

BACKGROUND

At their March 27, 2018 meeting, the Board unanimously adopted Resolution No. 18-07 concurring the nomination of Jo MacKenzie to the CSDA Board of Directors.

DESCRIPTION

On June 18, 2018 CSDA emailed electronic ballots to the designated contact in each district in good standing. The designated contact for each district will receive an email from CSDA providing a direct link to the secure third-party voting system called Simply Voting.

It is up to each district to determine their own process in terms of selecting a candidate to vote for in the election. The section will be cast by the main contact only before August 10, 2018. On August 13, 2018, ballots will be counted and verified.

A letter from the Vista Irrigation District Board President was received requesting the RMWD Board cast its vote for Jo MacKenzie, CSDA Board of Directors.

POLICY/STRATEGIC PLAN KEY FOCUS AREA

Strategic Focus Area Six: Communication

BOARD OPTIONS/FISCAL IMPACTS

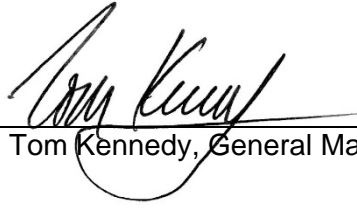
- 1) Direct RMWD's designated contact to cast a vote for Jo MacKenzie to serve as the CSDA Board of Directors for the Southern Network, Seat A.
- 2) Direct RMWD designated contact to cast a vote for another candidate to serve as the CSDA Board of Directors for the Southern Network, Seat A.
- 3) Decline to cast a vote in the CSDA Board of Directors for the Southern Network, Seat A elections.

ENVIRONMENTAL

In accordance with CEQA guidelines Section 15378, the action before the Board does not constitute a "project" as defined by CEQA and further environmental review is not required at this time.

STAFF RECOMMENDATION

Staff supports staff direction.



Tom Kennedy, General Manager

July 24 2018



CSDA Board of Directors Seat A Electronic Ballot Voting Begins June 18 in Bay Area Network, Central Network, and Southern Network*

June 18 - Electronic Ballots emailed to Designated Contact in each district in good standing

The designated contact for each district will receive an email from Neil McCormick CSDA. The email will provide a direct link to the secure third-party voting system called Simply Voting and provides:

- Elector ID number and Password
- Link to access the ballot directly
- Nominees and links to their candidate information will be provided

*It is up to each district to determine their own process in terms of selecting a candidate to vote for in the election. **The selection will be cast by the main contact, only!!***

August 10 - Deadline to receive electronic ballots

August 13 - Ballots will be counted and verified

If you have any questions about this process, contact Beth Hummel at CSDA 916-442-7887 or bethh@cdda.net.

**The Northern, Sierra and Coastal Network incumbents have no challengers; therefore, they assume their seats automatically.*



1391 Engineer Street • Vista, California 92081-8840
Phone (760) 597-3100 • Fax: (760) 598-8757
www.vidwater.org

Board of Directors

Paul E. Dorey, *President*
Jo MacKenzie
Marty Miller
Patrick H. Sanchez
Richard L. Vásquez

Administrative Staff

Eldon L. Boone
General Manager / Treasurer
Brett L. Hodgkiss
Assistant General Manager
Lisa R. Soto
Board Secretary
Joel D. Kuperberg
General Counsel

June 18, 2018

Re: Jo MacKenzie for CSDA Board of Directors, Southern Network, Seat A

Dear Board President:

On March 7, 2018, the Vista Irrigation District (VID) Board nominated Jo MacKenzie to the CSDA Board of Directors for the Southern Network, Seat A. As President of the Board, I'm requesting that your Board cast its vote for Jo MacKenzie, CSDA Board of Directors. The electronic balloting starts this week.

Jo's enthusiasm, commitment, and comprehensive knowledge of special districts have brought a high level of experience to the CSDA Board of Directors. Jo believes it is important that CSDA continue to be the voice of all special districts, and continue to build on the present foundation of legislative advocacy, educational programs, and public outreach.

Currently serving on the CSDA Board as a Past President (President, 2011). Jo served as Chair of the Legislative Committee from 2006-2010, and again in 2012. She was named Legislative Advocate of the Year in 2010. Jo currently serves as President of the CSDA Finance Corporation, and she also serves as Treasurer of the Special District Leadership Foundation. Jo has been very active with the San Diego Chapter of CSDA and served as its President 1998-2000.

Jo was elected to the VID Board of Directors in 1992, and has since served as President seven times. She is current Chair of San Diego LAFCO, and has continually served on LAFCO in various capacities since 1994. Jo is a past Board Director for ACWA and serves on the ACWA Local Government Committee (Chair 2014-15) and on the ACWA Membership Committee. She is active in her local community, having served on the City of San Marcos Planning Commission, Traffic/Safety Commission, Budget Review Committee and Affordable Housing Task Force. Jo has also been active in the San Marcos Chamber of Commerce for 30 years, serving as a Board Member and a Life Member Ambassador.

During my Board's nomination of Jo for re-election to the CSDA board, my comments was as follows:

"She's been their [CSDA's] loyal representative, for sure. And when it comes time to supporting all of their projects, you know that she provides the emphasis."

I urge your Board to vote for Jo MacKenzie for Southern Network Director. Thank you for your support!

Very truly yours,


Paul E. Dorey
President, Board of Directors

MEETINGS/SEMINARS/CONFERENCES/WORKSHOPS

VARIABLE					
DATE	2018	MEETING	LOCATION	ATTENDEES	POST
August	9	SDCWA Special Board Meeting	SDCWA	GM	N/A
August	16	CSDA – San Diego Chapter	(Location to be Announced) 6:00 p.m.	Mack	N/A
August	*	LAFCO Special Meeting	County Admin Center, Room 302 – 9:30am	(As Advised by GM)	N/A
August	*	Santa Margarita River Watershed Watermaster Steering Committee	Rancho California Water District	Hamilton	N/A

* To Be Announced

MEETINGS/SEMINARS/CONFERENCES/WORKSHOPS

RECURRING					
DATE	2018	MEETING	LOCATION	ATTENDEES	POST
August	1	Engineering & Operations Committee Meeting	RMWD Board Room 3:00 p.m.	Appointed Director, General Manager	7/26
August	2	Communications & Customer Service Committee Mtg.	RMWD Board Room 3:30 p.m.	Appointed Director, General Manager	7/26
August	6	LAFCO	County Admin. Center Room 302 9:00 am	As Advised by GM	N/A
August	14	Budget & Finance Committee Mtg.	RMWD Board Room 1:00 p.m.	Appointed Director, General Manager	7/26
August	14	SDCWA GM's Meeting	SDCWA, San Diego 9:00 a.m.	General Manager	N/A
August	17	NC Managers	Golden Egg 7:45 a.m.	General Manager	N/A
August	21	Council of Water Utilities	Hotel Karlan 14455 Penasquitos Drive San Diego 7:15 a.m. Poway	All Directors, General Manager	N/A
August	22	North County Water Group	Rincon Del Diablo, Escondido 7:30 a.m.	All Directors on a Rotating Schedule, General Manager	N/A
August	22	San Luis Rey Watershed Council	Pala Administration Building 1:00 p.m.	Stewart	N/A
August	27	SDCWA Full Board Meeting	SDCWA Board Room, 3-5 p.m.	General Manager	N/A
August	28	RMWD General Board	RMWD Board Room (Start Time to Be Determined)	All Directors	8/16



STAFF TRAINING REPORT

ATTENDEES NAME(S):	Charmaine W. Esnard
TITLE OF TRAINING/CONFERENCE/WORKSHOP/CLASS:	Occupational Safety and Health Standards for the C
DATE(S) ATTENDED:	June 25, 2018- June 28, 2018
AGENCY HOSTING TRAINING/CONFERENCE/WORKSHOP/CLASS:	UC San Diego Extension
LOCATION:	6256 Greenwich Dr. San Diego, CA 92122
BRIEF DESCRIPTION:	
<p>The course covered OSHA Standards, policies, and procedures in the construction industry. Topics included scope and application of the OSHA Construction Standards, construction safety and health principles, with special emphasis on those areas in construction which are most hazardous. The course equipped students with the ability to define construction terms found in the OSHA Construction Standards, identify hazards which occur in the construction industry, locate and determine appropriate OSHA Construction Standards, policies, and procedures, and describe the use of the OSHA Construction Standards and regulations to supplement an ongoing safety and health program within their particular field.</p>	

BOARD OF DIRECTORS

July 24, 2018

SUBJECT

Operations Report for June 2018

DESCRIPTION

Activities for Operations & Maintenance Division

CONSTRUCTION & MAINTENANCE DEPARTMENT:

The Construction Department Crews repaired eight (8) leaks, four (4) mainline repairs, four (4) water service laterals, and one (1) appurtenances. The crews performed four (4) planned/emergency shutdowns. They also completed the installation of the new pressure station at Ascot Park, with a start-up date this coming week. Crews also maintained District easements, backfilled/supported other departments as-needed, as well as completing facility maintenance and/or repair work at the District Yard.

WATER OPERATIONS & VALVE MAINTENANCE DEPARTMENT:

Monthly Totals	Valves (Distribution)	Appurtenance Valves	Appurtenances
Exercised	60	84	N/A
Inoperable	0	8	0
Repaired	0	0	0
Replaced	0	0	1
Installed	0	0	0

Water Operations completed and/or oversaw the following:

- Completed thirteen (13) monthly tank inspections and three (3) reservoir cover inspections.
- Repaired hypochlorite leak on Morro Reservoir injection system.
- Canonita Tank still offline from service for re-coating inside.
- Assisted with three (3) water quality calls / complaints.
- Weed abatement completed at eleven (11) various sites (tanks and chlorine stations).
- Weekly and daily routine inspections done at all reservoirs, tanks and pump stations.
- Acid washing and cleaning completed at Magee CL2 injection station.

Valve Maintenance completed and/or oversaw the following:

- 204 utility locates completed
- Assisted with eight (8) shutdowns and one (1) leak repair
- Assisted with easement marking
- Replaced one (1) air vac.

WASTEWATER DEPARTMENT:

Monthly, Semi Annual and Annual Reports:

California Integrated Water Quality System (CIWQS): Confirmation #2519305 Reported "No Spill Report" for the month of June 2018.

June 12, 2018: 31314 Camino Del Cielo - Responded to a private sewer overflow. Non-reportable (Customer's backyard release did not reach surface waters).

Lift Stations Pumps / Preventative Maintenance:

June 6, 2018 – Removed wear and tear pump volute. Reinstalled new volute to Pump #1.

June 7, 2018 - Removed wear and tear pump volute. Reinstalled new volute to Pump #2.

June 13, 2018 – Horse Creek sewer line easement cleared; applied Makaze weed killer.

June 19, 2018 – Electrical megging, check voltage on pumps at the following lift stations – Old River, School House, Rancho Viejo, Rancho Monserate and B Plant.

June 20, 2018 - Monthly sample at Stallion flow meter.

June 26, 2018 – Wastewater crew, electrician and SCADA Tech. staff met with DR Horton and Cass Construction to review new Horse Ranch Creek Lift Station's electrical, pumps and equipment.

June 27, 2018 – Oakcrest sample Semi Annual (WQS)

Sewer Line Cleaning:

June 1 – June 12, 2018:	2,168' Pala Mesa Resort
June 12 – June 19, 2018:	4,512' Pala Mesa Resort
June 19 – June 26, 2018:	2,071' Pala Mesa Resort
June 26 – June 30, 2018:	805' Pala Mesa Resort

Total footage cleaned for June = **9,556'**

High Frequency: N/A

Manhole Inspections:

June 1 – June 12, 2018:	7 manholes inspected
June 12 – June 19, 2018:	22 manholes inspected
June 19 – June 26, 2018:	12 manholes inspected
June 26 – June 30, 2018 =	4 manholes inspected

Total manholes inspected for the month: **45**

CCTV/CONTRACTOR: N/A

Smart/Cover Alarm Units:

June 11, 2018 – Tilt Alarm: High Level Siphon (Maintenance)

TECHNICAL SERVICES DEPARTMENT:

Fleet/Garage:

Repairs, maintenance, priority inspections and/or training for the month of June 2018:

- Vehicle Maintenance (8)
- Vehicles with Emergency Repairs (5)
- Small Equipment Repairs (6)
- New Vehicle or Equipment Preparation (0)
- Off-Road Equipment / Trailer Repairs & Maintenance (1)
- Off-Road Equipment / Trailer Emergency Repairs (2)
- Large Vehicle Maintenance / Repairs (3)
- Diesel Particulate Filter Troubleshoot & Repairs (1)
- Safety Recalls (2)
- BIT Inspections (0)
- Decommission of Vehicles or Equipment and Preparation for GovDeals Auction (0)
- Gasboy Fuel Cube Installation, Maintenance and/or Troubleshooting (1)
- Crane Inspections (0)
- Emergency Equipment Monthly Inspections (7)
- Target Safety Training (1)
- Class C dump truck training (13)
- GPS troubleshoot or repairs (1)
- Schedule yearly PSIP (periodic smoke inspections) & DPF (Diesel Particulate Filter Cleaning) (11)

Water Quality:

- 22 - Distribution system coliform samples
- 25 – Lead and Copper samples collected from customers
- 4 - Water quality calls / complaints from customers
- 12 - Nitrification samples
- 1 - Special bacteriological sample (Cottontail)
- 4 – Disinfection by product samples collected from distribution system (THM / HAAS)
- 2017 Consumer Confidence Report (CCR) mailed to customers

Electrical/SCADA:

Status update provided below on District-wide projects supported by Electrical/SCADA Staff:

- Motor control maintenance on Gomez Pump Station: Ongoing.
- SCADA maintenance on Gomez Pump Station: Replaced 120-volt fan in panel: Complete.
- Installed new radio communication link between Gopher Tank and Morro Tank. Our communication link is now looped on the south end of the District for redundancy: Complete.
- Installation of *SolarWinds* monitoring software for our Ubiquiti Radio Communication System: Ongoing.
- Replaced radios for SCADA Communication between Beck and cement tank repeater site: Ongoing.
- New game cameras at Gomez Pump Station: Complete.
- New cellular backup Internet project at District Headquarters: Ongoing.
- Installation of 3 flowmeters on Hutton, Turner and Gopher Tanks: Ongoing.
- Horse Creek Lift Station equipment and demonstration testing: Ongoing.
- Miscellaneous electrical building maintenance at Shop.

EMPLOYEE RECOGNITION – OPERATIONS & MAINTENANCE DIVISION

New Certifications

There were no new certifications for the month of June.



John Maccarrone
Interim Operations Manager

7/24/18

BOARD OF DIRECTORS

July 24, 2018

SUBJECT

Engineering Report for June 2018

DESCRIPTION

CAPITAL PROJECTS:

Bonsall Basin Imported Return Flow: Consultant is working on updating the Imported Return Flow calculations and confirming legal water rights.

Condition Assessment of Water Facilities: The Consultant has submitted a final draft of the technical memorandum.

Gird to Monserate Hill: Final plans, specs and environmental documents reviewed by staff. Pursuing alternative design with lower construction cost.

Pankey Lift Station: The Lift Station is constructed. Final inspection and testing expected to be completed by August 2018.

Lift Station 1 Replacement: New design underway with equalization basin at Thoroughbred Lift Station site and Schoolhouse Lift Station.

Rainbow Height's Pump Station Rehabilitation: Metropolitan Water District has approved the redesign for the smaller station outside of their easement. Consultant is finishing the 90% submittal for redesign. Advertise for bids in Summer 2018.

Wastewater Outfall Replacement: Project on hold until further evaluation from local water alternatives.

Weese Filtration Plant Interconnect: Final design underway. Expected completion by the end of July 2018.

DEVELOPER PROJECTS:

Golf Green Estates (Development Solutions): 94 SFR / 102.46 EDUs - Planned across from Bonsall Elementary School on Old River Road. Staff working with the developer on easement issues. Models completed and 28 water meters purchased to date. Onsite punch list will be compiled after all the homes have been built.

Horse Creek Ridge (HCR), (D.R. Horton): 627 WMs (Reduced by 124 WMs) / 754 EDUs - Off of Highway 76 and Horse Ranch Creek Road. Models completed and 253 water meters purchased to date.

Horse Creek Ridge Unit 6R5 Promontory (Richmond American Homes): 124 WMs / 124 EDUs - Off of Highway 76 and Horse Ranch Creek Road. D.R. Horton, master developer of HCR sold Unit 6-R5, 124 lots, Promontory Subdivision to Richmond American Homes. Currently the sewer EDUs are covered under an agreement with D.R. Horton. Models completed and 15 water meters purchased to date.

Malabar Ranch (Davidson Communities): 31 SFR / 29 EDUs - Off of Via Monserate/La Canada. There are 17 out of 31 homes built. Developer needs to complete the waterline relocation and punch list items.

Nessy Burger: Nessy Burger is constructing a permanent building. Staff is working with owners on options concerning the wastewater collection. Possible options would be to upgrade the existing private lift station or construct a lateral to the sewer main being constructed in Old Highway 395 to serve Pala Mesa Highlands.


Pala Mesa Highlands (Beazer Homes): 124 SFR / 124 EDUs - On Old Highway 395. Contractor has been installing 8" and 12" water and sewer mains onsite and in Old Highway 395. Sewer service agreement approved at the April 2018 Board Meeting. Models expected by Summer 2018 and 4 irrigations meters purchased to date.

Palomar College: 1 WM / 100 EDUs - Sewerline construction completed to connection point. Connection to existing sewer is scheduled after the Pankey Lift Station is completed and operational. Contractor is completing punch list items.

Topa Topa Place (Frulla Inc.): Waterline relocation. Construction and testing of the 12" CMLC water main has been completed. Tie-in is scheduled on July 11, 2018.

OTHER:

ITEMS	NO#	ITEMS	NO#
Water Availability Letters	1	Water Meters Purchased	28
Sewer Availability Letters	0	Sewer EDUs Purchased	0
Water Commitment Letters	0	Developer Shutdowns	0
Sewer Commitment Letters	0	Jobs Closed;	0


Steve Strapac, P.E., P.L.S. 7/10/2018
District Engineer 7/24/18

BOARD OF DIRECTORS

July 24, 2018

SUBJECT

HUMAN RESOURCES REPORT FOR JUNE/JULY 2018

DESCRIPTION

Personnel changes, human resources activities, and safety report for June/July 2018

STAFFING AND PERSONNEL CHANGES:

- The Operations Manager separated employment on June 18, 2018. John Maccarrone was appointed Acting Operations Manager and Ken Gerdes has returned to assist in managing the Operations Department until a permanent replacement is selected.
- One Construction Utility Worker II returned from leave of absence on July 5, 2018
- Two Customer Service Representatives began employment on July 2, 2018
- One Customer Service Representative resigned effective July 13, 2018.

RECRUITMENT:

Utility Worker – Construction: An offer was made to a candidate, who is expected to start on July 23, 2018.

Technical Services Lead: Three internal applicants applied for this promotional opportunity. Two met the qualifications for the job and were interviewed, and a selection was made.

Operations Manager: Posted on July 3, 2018, and will remain open until the District has enough qualified applicants to interview and make a qualified selection. The position has been advertised on WaterDistrictJobs.com, BCWaterJobs.com, Indeed.com, ZipRecruiter, and the print publication Jobs Available, which is targeted to public sector jobs. In the first 9 days of the job posting, it has been viewed over 1,500 times, and 52 applications have been received.

Customer Service Representative: Posted from July 3 – July 10, 2018, and some additional applicants from the most recent recruitment in May were invited to move forward in the selection process. Out of 459 applications received since May, 42 applicants have made it through the assessment phase of the selection process and are still eligible for consideration for the position.

Human Resources Assistant (part-time): Posted from July 3 – July 22, 2018. In the first 9 days, the posting was viewed over 1,700 times, and 160 applications were received for the position.

EMPLOYEE RECOGNITION:

Excellence Coin Awards

The following coin was issued in June:

Teamwork

Chris Hand – On a day when the load was heavy on the Engineering team, Chris stepped in to inspect a sewer line installation and observe manhole vacuum tests. He was already picking up extra duties that day. His extra efforts were extremely valuable to the Engineering Department.

Innovation

John Maccarrone, Chris Hand, Bryan Rose, Justin Chandler and Joe Perreira – While in the process of designing a District Tours program for the public for enhanced outreach, the idea was suggested to have an interactive display demonstrating a water service system from main to meter. These employees designed and constructed the model that included mainline valve, pipe, blow-off, air release, meter, and backflow device. The finished product included important details like painting it for a professional presentation. This was all based on one suggestion with no concept of what the finished product would be. This device has been used at the Avocado Festival, the Vintage Car Show, and the first Take-Your-Kids-to-Work-Day event. It is a great conversation piece and learning tool.

NEOGOV:

Insight Module

We currently have 2,289 active email subscriptions for notifications of job openings.

Perform Module

The DREAM team has continued meetings and testing both the self-evaluation and annual evaluation, as well as reviewing core competencies for each position to integrate into the performance reviews.

LILAC FIRE UPDATE:

The District has applied for and been approved for two FEMA grants, and they are both awaiting final approval amounts and payment.

FMAG: Final supporting documentation has been submitted to FEMA, through the California Office of Emergency Services (CalOES) for the Fire Management Assistance Grant (FMAG) in the amount of \$39,311.21

CDA: Supporting documents were also submitted for the California Disaster Assistance Act (CDA) grant in the amount of \$141,768.63.

SAFETY:

Incidents

It has been 28 days since the last reported injury, which was not a lost time incident.

Safety Training

Target Solutions online training: 19 completions for June 2018

Vehicle Training - District's New Class "C" Dump Truck with Air Brakes: 16 trained for June 2018

OSHA 510 - Construction Industry: Completed June 25, 2018 - June 28, 2018

Mobil Hearing Test: 30 members tested

Inspections

SDRMA workers' compensation insurance safety inspection 12 June 2018. This inspection highlighted areas needing closer attention by the district. As a result, Safety officer, Construction Superintendent, and Garage Manager are working on a plan of improvement for housekeeping, upgrading and increasing safety and efficiency in high risk areas, such as the weld shop, hazmat collection area and garage.

Continuing to make progress on the development of the district's new Emergency Response Plan (ERP). Safety Officer and HR Manager are reviewing ERP developed by Risk Management Professionals as well response plans from sister districts to streamline our new plan and make it more user friendly.

Future planning to increase safety awareness throughout the district to include:

- Implementing OSHA 10 Hour training for Safety Committee members as well as Crew leads.
- An initiative to increase employee wellness by including classes on stress management, nutrition and exercise.
- Resource Conservation Recovery Act (RCRA) training for Safety Officer and Garage Manager. This is a requirement for organizations that generate, ship or transport hazardous waste, the two day course can be completed on line.

Tailgate/ Office Safety Trainings

Slips, Trips, and Falls – 14 employees



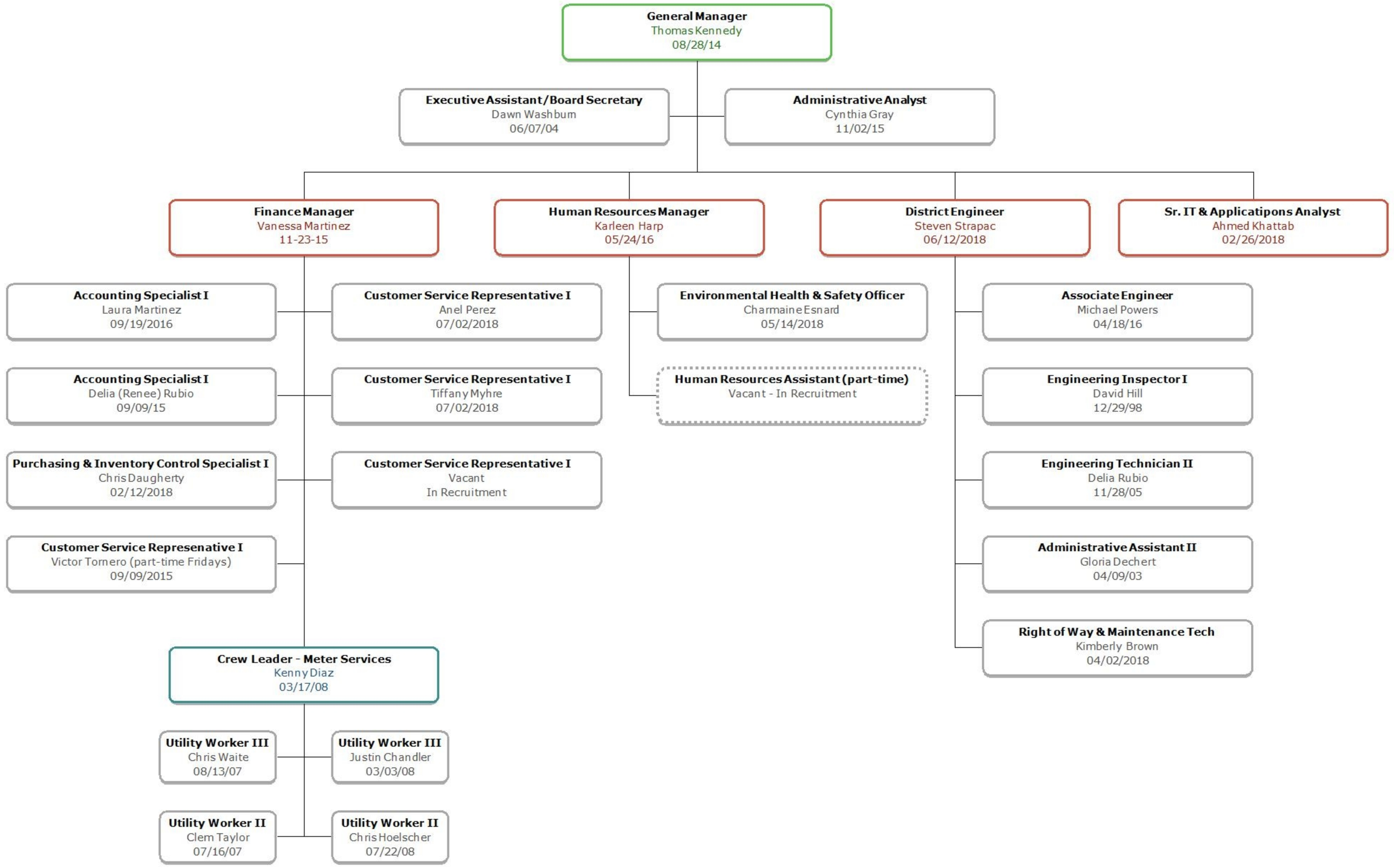
Karleen Harp, COSM
Human Resources Manager

07/24/2018

**RAINBOW MUNICIPAL WATER DISTRICT
ORGANIZATIONAL CHART
PAGE 1 OF 2**

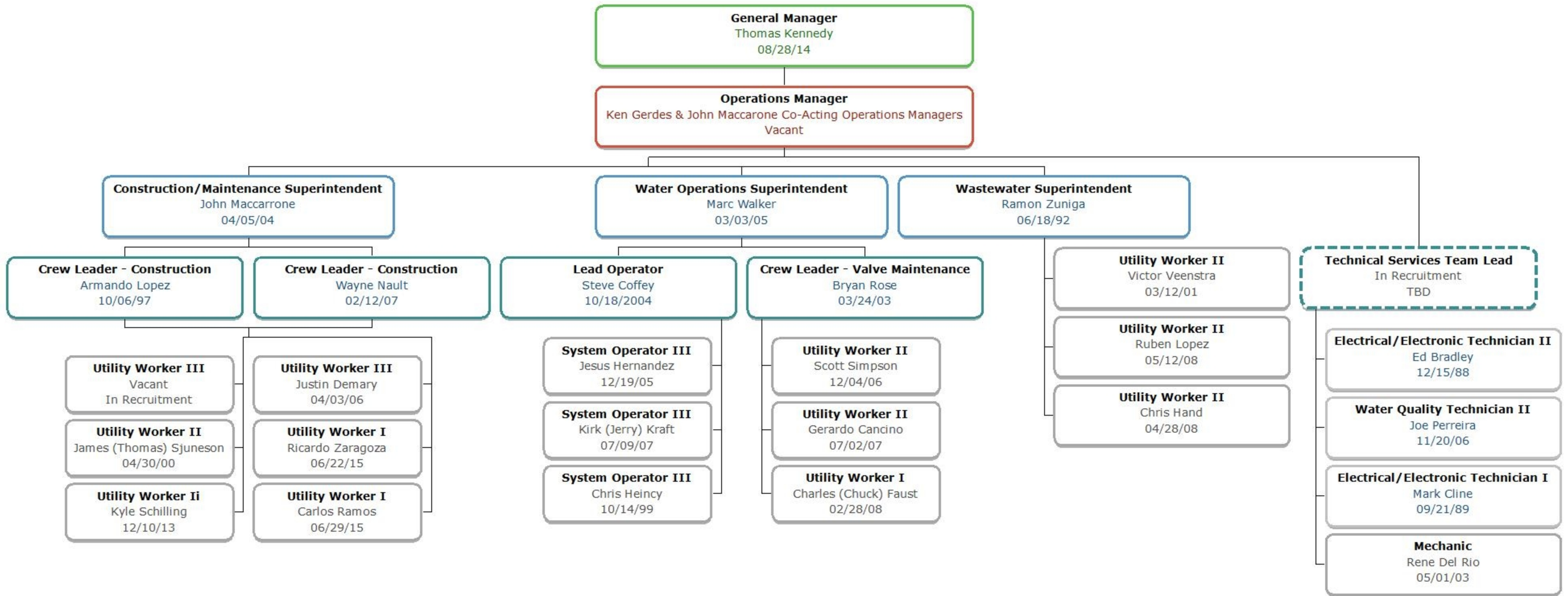
Creation Date 8/21/2014

Last Modified 7/12/2018



Creation Date 8/21/2014

Last Modified 7/12/2018



Interim Financials
Period: May 2018



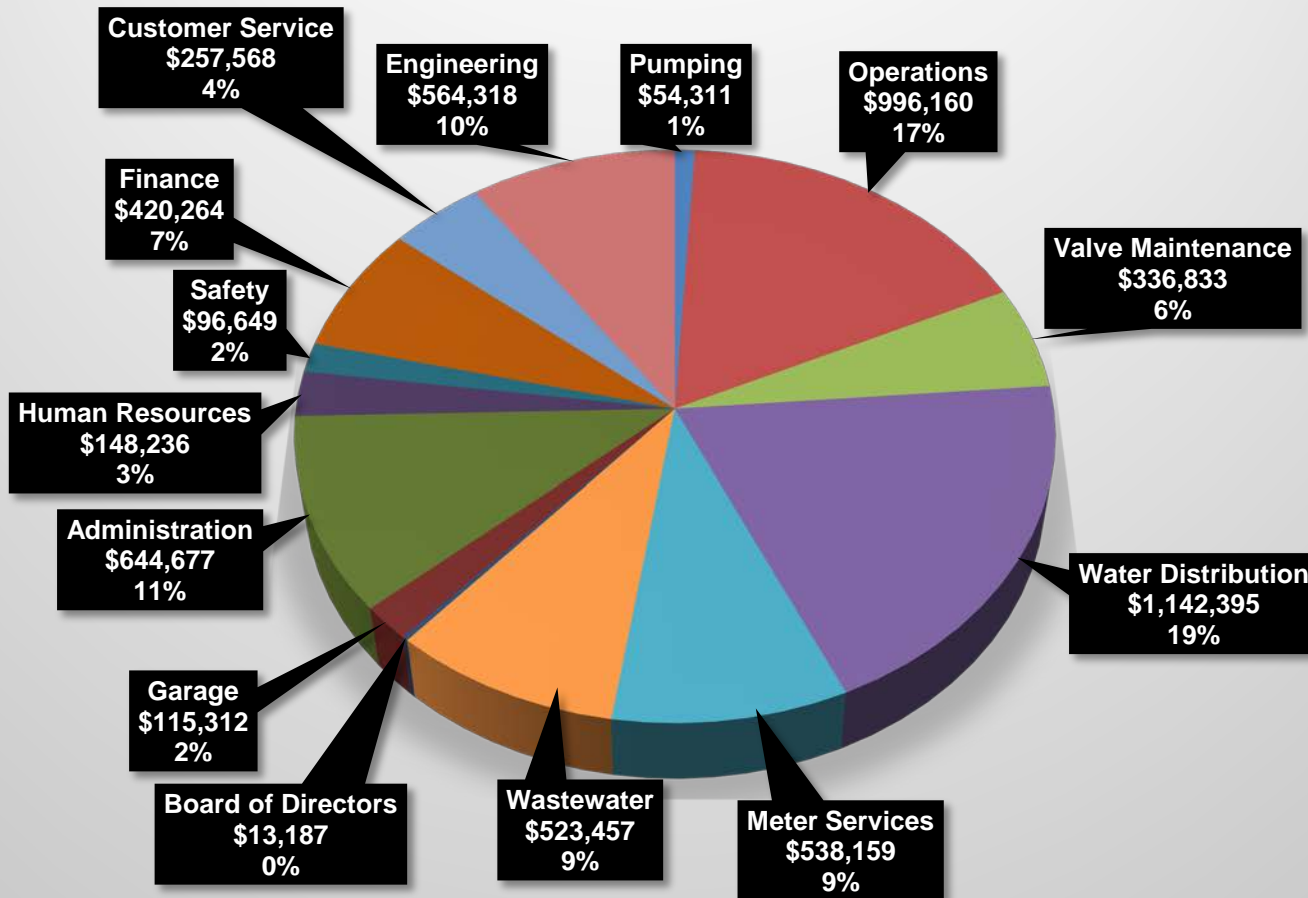
		Budget Amount	Period Amount	YTD Amount	YTD Variance	% Available
Fund 01: Water						
Operating Revenues:						
	Water Revenues	\$38,224,699	\$3,489,173	\$37,418,607	\$806,092	2%
	Other Revenues	\$536,500	\$47,358	\$440,107	\$96,393	18%
Total Revenues:		\$38,761,199	\$3,536,531	\$37,858,714	\$902,485	2%
Operating Expenses:						
	Cost of Water Sold	\$26,397,085	\$2,424,209	\$26,438,070	(\$40,985)	0%
	Labor	\$0	\$4,017	\$52,813	(\$52,813)	0%
	Overhead Transfer to General	\$3,843,297	\$0	\$0	\$3,843,297	100%
	Debt Service	\$1,120,142	\$0	\$0	\$1,120,142	100%
Department Expenses						
	Pumping					
	31 Labor	\$99,434	\$4,198	\$54,311	\$45,123	45%
	Expenses	\$590,500	\$13,114	\$409,817	\$180,683	31%
	Operations					
	32 Labor	\$1,180,319	\$91,392	\$996,160	\$184,159	16%
	Expenses	\$983,343	\$150,827	\$845,374	\$137,969	14%
	Valve Maintenance					
	33 Labor	\$479,381	\$31,156	\$336,833	\$142,548	30%
	Expenses	\$52,500	\$11,716	\$84,008	(\$31,508)	-60%
	Capital	\$50,000	\$1,757	\$10,429	\$39,571	79%
	Water Distribution					
	34 Labor	\$1,480,763	\$73,960	\$1,142,395	\$338,368	23%
	Expenses	\$536,300	\$311,219	\$744,195	(\$207,895)	-39%
	Meter Services					
	35 Labor	\$687,123	\$48,916	\$538,159	\$148,964	22%
	Expenses	\$409,000	\$4,034	\$349,993	\$59,007	14%
	Capital	\$145,000	\$44,651	\$407,381	(\$262,381)	0%
Total Operating Expenses:		\$38,054,187	\$3,215,165	\$32,409,940	\$5,644,247	15%
Water Fund Totals:		\$707,012	\$321,366	\$5,448,774	\$4,741,762	
Fund 02: Wastewater						
Operating Revenues:						
	Wastewater Revenues	\$2,395,500	\$218,069	\$2,414,806	(\$19,306)	-1%
	Other Revenues	\$40,000	\$6,667	\$52,897	(\$12,897)	-32%
Total Revenues:		\$2,435,500	\$224,737	\$2,467,703	(\$32,203)	-1%
Operating Expenses:						
	Overhead Transfer to General	\$901,514	\$0	\$0	\$901,514	100%
Department Expenses						
	Wastewater					
	61 Labor	\$707,197	\$37,756	\$523,457	\$183,740	26%
	Expenses	\$1,418,000	\$103,446	\$949,208	\$468,792	33%
	Capital	\$25,000	\$0	\$10,340	\$14,660	59%
Total Operating Expenses:		\$3,051,711	\$141,201	\$1,483,004	\$1,568,707	51%
Wastewater Fund Totals:		(\$616,211)	\$83,535	\$984,699	\$1,600,910	

Interim Financials
Period: May 2018

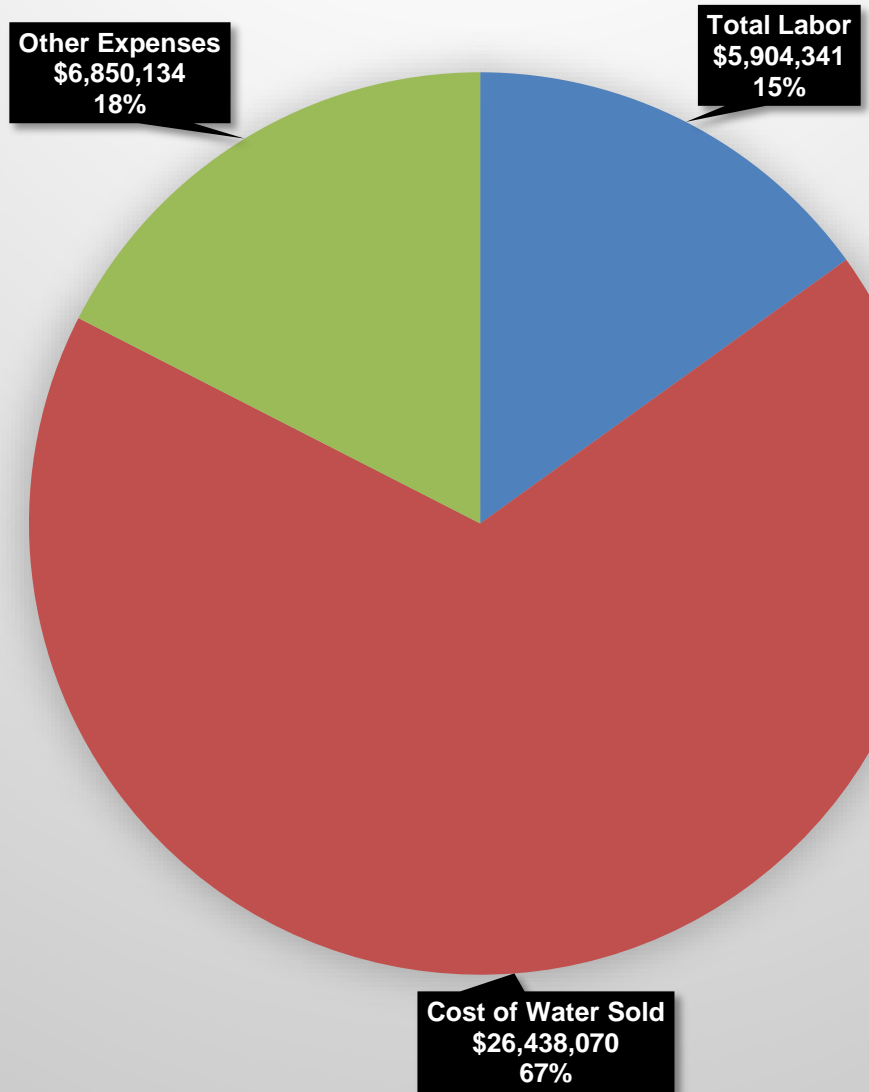


		Budget Amount	Period Amount	YTD Amount	YTD Variance	% Available
Fund 03: General						
Operating Revenues:						
	Overhead Transfers	\$4,744,811	\$0	\$0	\$4,744,811	100%
	Other Revenues	\$433,470	\$40,702	\$503,190	(\$69,720)	-16%
	Total Revenues:	\$5,178,281	\$40,702	\$503,190	\$4,675,091	90%
Operating Expenses:						
	Other Expenses	\$0	\$0	\$285,115	(\$285,115)	0%
Department Expenses						
	Board of Directors					
	20 Labor	\$19,613	\$646	\$13,187	\$6,426	33%
	Expenses	\$20,300	\$647	\$12,833	\$7,467	37%
	Garage					
	36 Labor	\$147,989	\$9,509	\$115,312	\$32,677	22%
	Expenses	\$244,500	\$21,157	\$183,814	\$60,686	25%
	Capital	\$309,500	\$0	\$308,631	\$869	0%
	Administration					
	41 Labor	\$698,344	\$57,714	\$644,677	\$53,667	8%
	Expenses	\$1,271,978	\$65,217	\$1,332,688	(\$60,710)	-5%
	Capital	\$100,000	\$0	\$97,602	\$2,398	2%
	Human Resources					
	42 Labor	\$171,149	\$14,523	\$148,236	\$22,913	13%
	Expenses	\$169,150	\$5,385	\$99,684	\$69,466	41%
	Safety					
	43 Labor	\$144,288	\$1,641	\$96,649	\$47,639	33%
	Expenses	\$76,350	\$2,461	\$51,486	\$24,864	33%
	Finance					
	51 Labor	\$522,628	\$34,109	\$420,264	\$102,364	20%
	Expenses	\$131,500	\$4,964	\$122,337	\$9,163	7%
	Customer Service					
	52 Labor	\$288,513	\$24,923	\$257,568	\$30,945	11%
	Expenses	\$239,500	\$15,508	\$215,185	\$24,315	10%
	Engineering					
	91 Labor	\$756,216	\$58,249	\$564,318	\$191,898	25%
	Expenses	\$325,529	\$4,945	\$330,013	(\$4,484)	-1%
	Total Operating Expenses:	\$5,637,047	\$321,596	\$5,299,601	\$337,446	6%
	General Fund Totals:	(\$458,766)	(\$280,894)	(\$4,796,411)	(\$4,337,645)	
	Net Income	(\$367,965)	\$124,007	\$1,637,062	\$2,005,027	

YTD Labor Costs (May 2018)



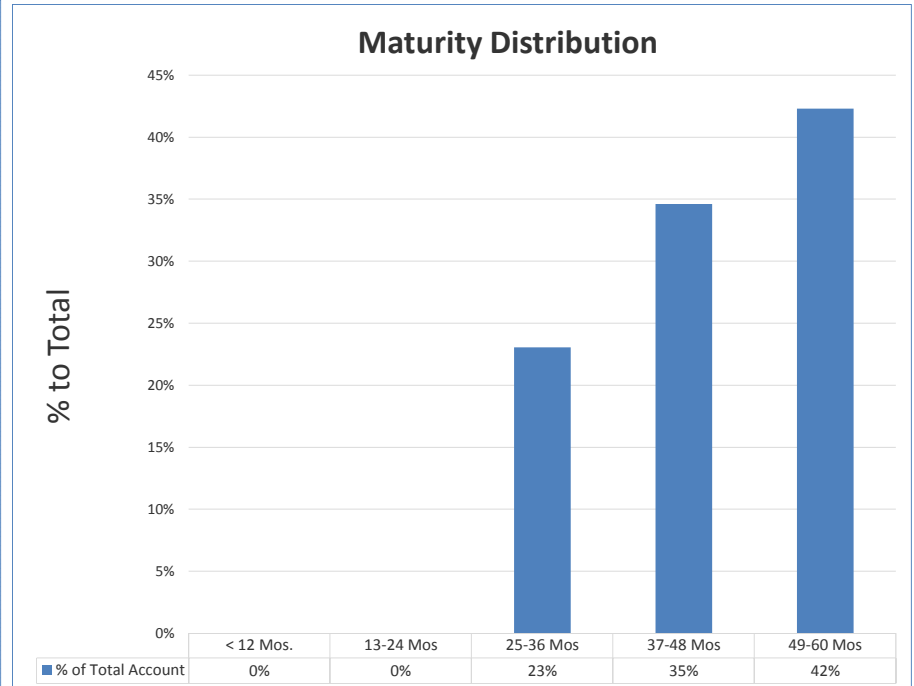
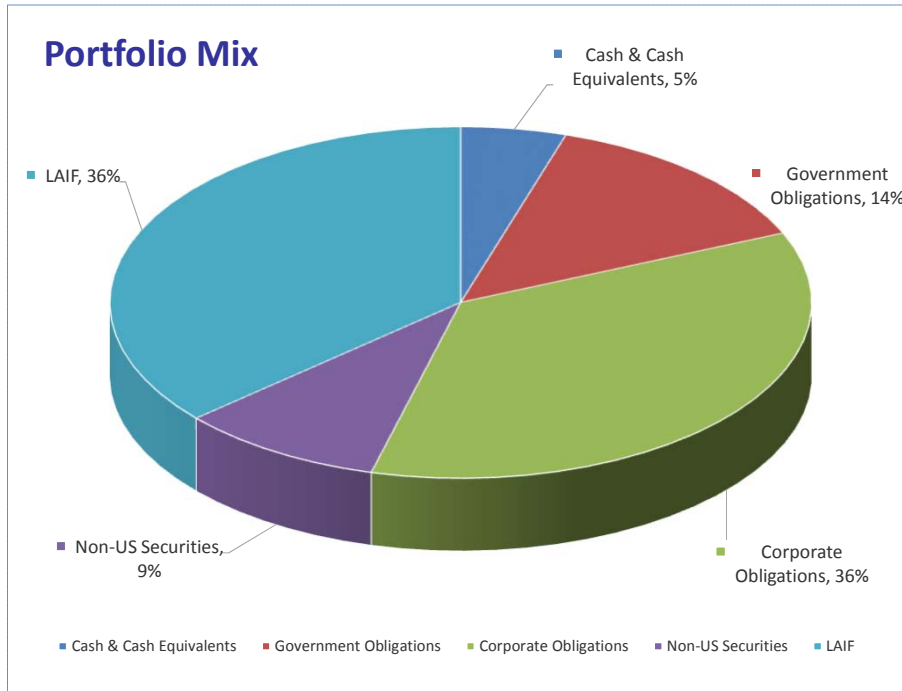
YTD Expense Allocation (May 2018)



RAINBOW MUNICIPAL WATER DISTRICT
TREASURER'S MONTHLY REPORT OF INVESTMENTS
PORTFOLIO SUMMARY
5/31/2018



TYPE	ISSUER	CUSIP	Bond Rating	Date of Maturity	Cost Basis	Market Value	Interest Rate	Yield to Maturity	Next Interest Payment Date	Semi-Annual Interest	Days to Maturity	Fund
Money Market Funds	JP MORGAN MONEY MARKET	48125C068S	N/A		\$ 86,510	\$ 86,510						
Total Cash & Cash Equivalents					\$ 86,510	\$ 86,510						
Callable Note	FEDERAL HOME LN MTG CORP	3134G3QR4	Aaa	03/05/20	\$ 498,168	\$ 495,860	2.000%	2.200%	09/05/18	\$ 4,982	644	13 13108
Callable Note	FEDERAL HOME LN MTG CORP	3134G3F96	Aaa	08/28/20	\$ 1,032,851	\$ 995,664	1.660%	1.320%	02/28/18	\$ 8,573	820	53 13108
Callable Note	FEDERAL HOME LOAN BANK BONDS	3130AD4X7	Aaa	12/11/20	\$ 494,905	\$ 494,105	2.000%	2.400%	06/11/18	\$ 4,949	925	60 13108
Callable Note	FEDERAL NATL MTG ASSN	3135GOT45	Aaa	04/05/22	\$ 1,002,910	\$ 971,040	1.875%	1.810%	04/05/18	\$ 9,402	1405	60 13108
Callable Note	FEDERAL FARM CR BKS	3133EHRU9	Aaa	07/19/22	\$ 200,938	\$ 193,782	1.900%	1.800%	01/19/18	\$ 1,909	1510	53 13108
Callable Note	FEDERAL HOME LN MTG CORP	3134GBS94	Aaa	10/26/22	\$ 651,918	\$ 633,594	2.100%	1.800%	04/26/18	\$ 6,845	1609	53 13108
Callable Note	FEDERAL NATL MTG ASSN	3135GOT94	Aaa	01/19/23	\$ 515,226	\$ 512,297	2.375%	2.410%	07/19/18	\$ 6,118	1694	13 13108
Callable Note	FEDERAL NATL MTG ASSN	3135G0T94	Aaa	01/19/23	\$ 480,034	\$ 477,304	2.375%	2.600%	07/19/18	\$ 5,700	1694	53 13108
Callable Note	FEDERAL NATL MTG ASSN	3135G0T94	Aaa	01/19/23	\$ 465,211	\$ 462,566	2.375%	2.600%	07/19/18	\$ 5,524	1694	13 13108
Callable Note	FEDERAL HOME LOAN BANKS	3130ADRG9	Aaa	03/10/23	\$ 501,990	\$ 500,460	2.750%	2.660%	09/10/18	\$ 6,902	1744	53 13108
Total Government Obligations					\$ 5,844,148	\$ 5,736,672						
Callable Note	CATERPILLAR FINL CORP	14912HSR2	A2	09/15/21	\$ 1,000,000	\$ 941,240	1.600%	1.600%	03/15/18	\$ 8,000	1203	13 13108
Callable Note	ORACLE CORP	68389XBKO	A1	09/15/21	\$ 1,011,470	\$ 967,510	1.910%	1.900%	03/15/18	\$ 9,660	1203	13 13108
Callable Note	WELLS FARGO	95000U2B8	A2	07/22/22	\$ 989,232	\$ 944,936	2.625%	2.410%	01/22/18	\$ 12,984	1513	13 13108
Callable Note	BARCLAYS BK DEL	06740KJK4	Aaa	09/16/20	\$ 245,000	\$ 241,911	2.210%	2.200%	03/16/18	\$ 2,707	839	60 13108
FDIC Ins. CD	AMERICAN EXPRESS CENTRN	02587DB64	Aaa	09/23/20	\$ 250,000	\$ 246,030	2.310%	2.300%	03/23/18	\$ 2,888	846	53 13108
FDIC Ins. CD	DISCOVER BANK	254672F29	N/A	08/10/21	\$ 248,000	\$ 236,847	1.500%	1.500%	02/10/18	\$ 1,860	1167	53 13108
FDIC Ins. CD	WELLS FARGO BANK NATL ASSN	949763AF3	N/A	08/17/21	\$ 98,000	\$ 93,536	1.550%	1.550%	02/17/18	\$ 760	1174	53 13108
FDIC Ins. CD	WELLS FARGO BANK NATL ASSN	949763AF3	N/A	08/17/21	\$ 150,000	\$ 143,168	1.550%	1.550%	02/17/18	\$ 1,163	1174	13 13108
FDIC Ins. CD	MB FINL BK NA CHIC IL	55266CZJ8	N/A	11/18/21	\$ 247,000	\$ 245,750	2.850%	2.850%	11/18/18	\$ 3,520	1267	60 13108
FDIC Ins. CD	STATE BK INDIA NEW YORK NY	8562846U3	Aaa	03/14/22	\$ 250,000	\$ 243,090	2.250%	2.250%	03/14/18	\$ 2,813	1383	13 13108
FDIC Ins. CD	SYNCHRONY BK RETAIL	87165EMKO	N/A	05/26/22	\$ 240,000	\$ 234,259	2.400%	2.400%	05/26/18	\$ 2,880	1456	53 13108
FDIC Ins. CD	GOLDMAN SACHS BK USA NY	38148PKT3	N/A	06/14/22	\$ 245,000	\$ 238,542	2.350%	2.350%	12/14/18	\$ 2,879	1475	53 13108
FDIC Ins. CD	CAPITAL ONE NATL ASSN VA	14042RKL4	N/A	11/22/22	\$ 250,000	\$ 242,365	2.400%	2.400%	05/22/18	\$ 3,000	1636	53 13108
FDIC Ins. CD	MORGAN STANLEY	61747MF63	N/A	01/11/23	\$ 246,000	\$ 240,630	2.650%	2.650%	07/11/18	\$ 3,260	1686	53 13108
FDIC Ins. CD	BMW BANK NORTH AMER	05580AMB7	N/A	03/29/23	\$ 240,000	\$ 236,758	2.900%	2.900%	09/29/18	\$ 3,480	1763	53 13108
FDIC Ins. CD	SALLIE MAE BK SLT LAKE CITY	795450M44	Aaa	04/11/23	\$ 240,000	\$ 237,199	2.950%	2.950%	10/11/18	\$ 3,540	1776	60 13108
Total Corporate Obligations					\$ 5,949,702	\$ 5,733,770						
Callable Note	AUSTRALIA & NEW ZEALA BKG	05253JAM3	Aa2	06/01/21	\$ 517,228	\$ 487,070	2.300%	1.550%	12/01/17	\$ 5,948	1097	53 13108
Callable Note	NATIONAL AUSTRALIA BK NY	63254AAR9	Aa2	07/12/21	\$ 508,870	\$ 478,950	1.875%	1.880%	01/12/18	\$ 4,771	1138	53 13108
Callable Note	BANK OF MONTREAL	06367TJX90	Aa3	08/27/21	\$ 1,011,840	\$ 961,430	1.900%	1.900%	02/27/18	\$ 9,612	1184	60 13108
Total Non-US Securities					\$ 2,037,938	\$ 1,927,450						
Subtotal Long Term Pooled Investment	Local Agency Investment Fund (LAIF)				\$ 13,918,297	\$ 13,484,402						
					\$ 7,584,576	\$ 7,584,576	1.172%					
Portfolio Totals					\$ 21,502,873	\$ 21,068,978						



This monthly report accurately reflects all District pooled investments. It is in conformity with the Investment Administrative code section 5.03.080. The District has sufficient cash flow to meet six months of obligations. This is in effect in compliance with the current Investment Policy.

Vanessa Martinez, Treasurer

7/9/2018

Accounts Payable

May American Express Detail



Check Number	Check Date		Amount
280 - AMAZON.COM Line Item Account			
6081701	06/08/2017		
Inv	0062712-1316254		
<u>Line Item Date</u>	<u>Line Item Description</u>	<u>Line Item Account</u>	
05/16/2017	GROTE 60481 WHITE LED ROPE LIGHTING	03-36-63422	248.99
Inv	0062712-1316254 Total		248.99
Inv	1620131-0426601		
<u>Line Item Date</u>	<u>Line Item Description</u>	<u>Line Item Account</u>	
05/16/2017	ANKER POWERPORT 6, BAMBOO CHARGING STATION, FLC	03-41-60100	380.21
Inv	1620131-0426601 Total		380.21
Inv	4358787-2541815		
<u>Line Item Date</u>	<u>Line Item Description</u>	<u>Line Item Account</u>	
04/01/2017	DESK FOR BOARD ROOM-SOUTH SHORE FURNITURE, GAS	03-41-63401	147.18
Inv	4358787-2541815 Total		147.18
Inv	4912616-6320253		
<u>Line Item Date</u>	<u>Line Item Description</u>	<u>Line Item Account</u>	
05/03/2017	ERGOTRON WORKFIR SR SIT/STAND WORKSTATION SHOR	03-41-63401	639.19
Inv	4912616-6320253 Total		639.19
Inv	5709135-3800239		
<u>Line Item Date</u>	<u>Line Item Description</u>	<u>Line Item Account</u>	
05/15/2017	(4) SUPER BRIGHT CAMPING HEADLAMPS	03-41-60100	107.96
Inv	5709135-3800239 Total		107.96
Inv	6772821-8217837		
<u>Line Item Date</u>	<u>Line Item Description</u>	<u>Line Item Account</u>	
05/23/2017	1TB CARTRIDGE	03-41-60100	180.45
Inv	6772821-8217837 Total		180.45
Inv	8041315-7698622		
<u>Line Item Date</u>	<u>Line Item Description</u>	<u>Line Item Account</u>	
05/03/2017	BROTHER BU300CL BELT UNIT - RETAIL PACKAGING	01-32-72000	108.66
Inv	8041315-7698622 Total		108.66

Inv 8488521-7727415

<u>Line Item Date</u>	<u>Line Item Description</u>	<u>Line Item Account</u>	
05/23/2017	FLASH DRIVE, PRE-INK STAMPS, SHUTTER STAMP	03-41-60100	59.06

Inv 8488521-7727415 Total 59.06

Inv 9026704-8705805

<u>Line Item Date</u>	<u>Line Item Description</u>	<u>Line Item Account</u>	
05/16/2017	ANKER 1' LIGHTNING CABLE FOR IPHONE/IPAD/IPOD DEVI	03-41-60100	151.59

Inv 9026704-8705805 Total 151.59

Inv 9556497-5524266

<u>Line Item Date</u>	<u>Line Item Description</u>	<u>Line Item Account</u>	
05/10/2017	LOGITECH Z313 SPEAKER SYSTEM	03-41-60100	34.99
05/10/2017	ANKER POWERCORE II 20000 PORTABLE CHARGER, 20000M	03-41-60100	87.98
05/10/2017	MONOPRICE PALETTE SERIES 2.0 USB-C TO USB A CABLE, 1	03-41-60100	6.11
05/10/2017	STARTECH.COM 6 IN MICRO USB CABLE - A TO MICRO B	03-41-60100	2.79
05/10/2017	TAX	03-41-60100	13.31
05/10/2017	APPLE 12W USB POWERADAPTER	03-41-60100	39.90
05/10/2017	ANKER 60W 6-PORT USB WALL CHARGER, POWERPORT 6	03-41-60100	70.47

Inv 9556497-5524266 Total 255.55

6081701 Total: 2,278.84

280 - AMAZON.COM Total: 2,278.84

4970 - BRADY SAND & MATERIAL, INC. Line Item Account

6081702 06/08/2017

Inv 201704-29

<u>Line Item Date</u>	<u>Line Item Description</u>	<u>Line Item Account</u>	
04/24/2017	CLASS II BASE,COLD MIX FT BILL 75963/75964/75947/75290	01-34-72000	4,049.45

Inv 201704-29 Total 4,049.45

Inv 201705-16

<u>Line Item Date</u>	<u>Line Item Description</u>	<u>Line Item Account</u>	
05/08/2017	CLASS II BASE, COLD MIX FT BILL 75300 / 75301	01-34-72000	3,947.88

Inv 201705-16 Total 3,947.88

6081702 Total: 7,997.33

4970 - BRADY SAND & MATERIAL, INC. Total: 7,997.33

2885 - CORELOGIC INFORMATION Line Item Account

6081703 06/08/2017

Check Number	Check Date		Amount
Inv	81796193		
<u>Line Item Date</u>	<u>Line Item Description</u>	<u>Line Item Account</u>	
04/03/2017	REALQUEST.COM MAP SEARCH, GEOGRAPHIC MAP SEAR	03-91-63102	192.50
Inv 81796193 Total			192.50
6081703 Total:			192.50
2885 - CORELOGIC INFORMATION Total:			192.50
2027 - CULLIGAN OF ESCONDIDO Line Item Account			
6081704	06/08/2017		
Inv	043017		
<u>Line Item Date</u>	<u>Line Item Description</u>	<u>Line Item Account</u>	
04/30/2017	WATER SOFTNER, SERVICE PERIOD: 05/01-05/31	03-41-63401	74.93
Inv 043017 Total			74.93
6081704 Total:			74.93
2027 - CULLIGAN OF ESCONDIDO Total:			74.93
3325 - GRAINGER, W.W. INC. Line Item Account			
6081705	06/08/2017		
Inv	9419722013		
<u>Line Item Date</u>	<u>Line Item Description</u>	<u>Line Item Account</u>	
04/18/2017	WATER CONTAINER, 6 GAL. BLUE	01-34-72000	191.62
Inv 9419722013 Total			191.62
Inv	9420221260		
<u>Line Item Date</u>	<u>Line Item Description</u>	<u>Line Item Account</u>	
04/19/2017	HOSE REEL, 1/4 IN. 60FT	03-36-63422	522.51
Inv 9420221260 Total			522.51
Inv	9420221278		
<u>Line Item Date</u>	<u>Line Item Description</u>	<u>Line Item Account</u>	
04/19/2017	HEAT GUN KITS, 500 TO 1000F, 16.0 CFM	01-32-63102	135.98
Inv 9420221278 Total			135.98
Inv	9427953998		
<u>Line Item Date</u>	<u>Line Item Description</u>	<u>Line Item Account</u>	
04/26/2017	WIRE WHEEL BRUSH P/N - K9000	01-00-14610	319.53
04/26/2017	GRINDING WHEEL P/N - K8000	01-00-14610	88.89
Inv 9427953998 Total			408.42

Inv 9434383205

<u>Line Item Date</u>	<u>Line Item Description</u>	<u>Line Item Account</u>	
05/03/2017	GRAY PRIMER P/N - PA1020	01-00-14610	81.26
05/03/2017	SAFETY YELLOW SPRAY PAINT P/N - PA1016	01-00-14610	138.02
05/03/2017	WD-40 P/N - PA1005	01-00-14610	106.93
05/03/2017	BLACK MARKING PAINT P/N - PA1000	01-00-14610	39.18
05/03/2017	LUBEZE DRILL CHILL CUTTING OIL P/N - PA1013	01-00-14610	66.66
05/03/2017	GREEN MARKING PAINT P/N - PA1024	01-00-14610	39.18
05/03/2017	WHITE GLOSS SPRAY PAINT P/N - PA1043	01-00-14610	118.30
05/03/2017	BLUE MARKING PAINT P/N - PA1004	01-00-14610	75.77

Inv 9434383205 Total 665.30

Inv 9434383213

<u>Line Item Date</u>	<u>Line Item Description</u>	<u>Line Item Account</u>	
05/03/2017	3/4" W PTFE THREAD SEALANT TAPE	01-34-72000	64.00
05/03/2017	PRIMER CLEANER PURPLE 8OZ P/N - K1082	01-00-14610	32.88
05/03/2017	OPEN MESH CLOTH 180 GRIT P/N - K1114	01-00-14610	75.45
05/03/2017	TEFLON PIPE DOPE 1/2 PINT P/N - K1089	01-00-14610	121.76
05/03/2017	WIRE BRUSH LARGE P/N - K1054	01-00-14610	152.64
05/03/2017	PREM WET & DRY CEMENT 1/2 PT P/N - K1086	01-00-14610	42.27

Inv 9434383213 Total 489.00

6081705 Total: 2,412.83

3325 - GRAINGER, W.W. INC. Total: 2,412.83

5425 - OFFICE DEPOT Line Item Account

6081706 06/08/2017

Inv 2061057104

<u>Line Item Date</u>	<u>Line Item Description</u>	<u>Line Item Account</u>	
04/21/2017	8X11 WHITE PAPER	03-41-72000	5.09

Inv 2061057104 Total 5.09

Inv 925538284001

<u>Line Item Date</u>	<u>Line Item Description</u>	<u>Line Item Account</u>	
05/04/2017	BATTERY AND STAMPS-COMPLETED, RECEIVED, COPY, SH	03-41-72000	120.02

Inv 925538284001 Total 120.02

6081706 Total: 125.11

5425 - OFFICE DEPOT Total: 125.11

5910 - PACIFIC PIPELINE SUPPLY Line Item Account

6081707 06/08/2017

Inv 313251

<u>Line Item Date</u>	<u>Line Item Description</u>	<u>Line Item Account</u>	
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Check Number	Check Date		Amount
04/06/2017	6" 300# FLANGED DUCTIL 90 P/N - Y1325	01-00-14610	1,402.28
04/06/2017	6" 300# FLANGED DUCTIL 90 P/N - Y1325	01-00-14610	398.20
Inv 313251 Total			1,800.48
Inv 313474			
<u>Line Item Date</u>	<u>Line Item Description</u>	<u>Line Item Account</u>	
04/26/2017	12" AVK GATE VALVE FLG X FLG 250#	01-00-14610	9,774.30
Inv 313474 Total			9,774.30
Inv 313577			
<u>Line Item Date</u>	<u>Line Item Description</u>	<u>Line Item Account</u>	
04/25/2017	12" 300# RING GASKET P/N - G1014	01-00-14610	110.87
Inv 313577 Total			110.87
6081707 Total:			11,685.65
5910 - PACIFIC PIPELINE SUPPLY Total:			11,685.65
5976 - PRUDENTIAL OVERALL SUPPLY Line Item Account			
6081708	06/08/2017		
Inv 130740140			
<u>Line Item Date</u>	<u>Line Item Description</u>	<u>Line Item Account</u>	
04/18/2017	MONTHLY UNIFORMS	03-41-56511	126.26
04/18/2017	MATS & MISC	03-41-63401	6.62
Inv 130740140 Total			132.88
Inv 130740141			
<u>Line Item Date</u>	<u>Line Item Description</u>	<u>Line Item Account</u>	
04/18/2017	MONTHLY UNIFORMS	03-41-56511	95.93
Inv 130740141 Total			95.93
Inv 130741689			
<u>Line Item Date</u>	<u>Line Item Description</u>	<u>Line Item Account</u>	
04/25/2017	MATS & MISC	03-41-63401	138.83
04/25/2017	MONTHLY UNIFORMS	03-41-56511	149.53
Inv 130741689 Total			288.36
Inv 130741690			
<u>Line Item Date</u>	<u>Line Item Description</u>	<u>Line Item Account</u>	
04/25/2017	MONTHLY UNIFORMS	03-41-56511	101.74
Inv 130741690 Total			101.74

Check Number	Check Date		Amount
Inv	130743209		
<u>Line Item Date</u>	<u>Line Item Description</u>	<u>Line Item Account</u>	
05/02/2017	MONTHLY UNIFORMS	03-41-56511	122.50
05/02/2017	MATS & MISC	03-41-63401	6.62
Inv 130743209 Total			129.12
Inv	130743210		
<u>Line Item Date</u>	<u>Line Item Description</u>	<u>Line Item Account</u>	
05/02/2017	MONTHLY UNIFORMS	03-41-56511	101.74
Inv 130743210 Total			101.74
Inv	130744751		
<u>Line Item Date</u>	<u>Line Item Description</u>	<u>Line Item Account</u>	
05/09/2017	MONTHLY UNIFORMS	03-41-56511	130.54
05/09/2017	MATS & MISC	03-41-63401	138.83
Inv 130744751 Total			269.37
Inv	130744752		
<u>Line Item Date</u>	<u>Line Item Description</u>	<u>Line Item Account</u>	
05/09/2017	MONTHLY UNIFORMS	03-41-56511	111.44
Inv 130744752 Total			111.44
Inv	130746252		
<u>Line Item Date</u>	<u>Line Item Description</u>	<u>Line Item Account</u>	
05/16/2017	MATS & MISC	03-41-63401	6.62
05/16/2017	MONTHLY UNIFORMS	03-41-56511	141.95
Inv 130746252 Total			148.57
Inv	130746253		
<u>Line Item Date</u>	<u>Line Item Description</u>	<u>Line Item Account</u>	
05/16/2017	MONTHLY UNIFORMS	03-41-56511	101.94
Inv 130746253 Total			101.94
Inv	130747783		
<u>Line Item Date</u>	<u>Line Item Description</u>	<u>Line Item Account</u>	
05/23/2017	MONTHLY UNIFORMS	03-41-56511	130.54
05/23/2017	MATS & MISC	03-41-63401	138.83
Inv 130747783 Total			269.37
Inv	130747784		
<u>Line Item Date</u>	<u>Line Item Description</u>	<u>Line Item Account</u>	
05/23/2017	MONTHLY UNIFORMS	03-41-56511	101.94
Inv 130747784 Total			101.94

Check Number	Check Date		Amount
6081708	Total:		1,852.40
5976 - PRUDENTIAL OVERALL SUPPLY Total:			1,852.40
603338 - SEARS Line Item Account			
6081709	06/08/2017		
Inv	W067058		
<u>Line Item Date</u>	<u>Line Item Description</u>	<u>Line Item Account</u>	
05/26/2017	DRILL PRESS CHUCK KEY	01-34-72000	40.65
Inv W067058	Total		40.65
6081709	Total:		40.65
603338 - SEARS Total:			40.65
7258 - SO CAL WAX SHOP Line Item Account			
6081710	06/08/2017		
Inv	2137		
<u>Line Item Date</u>	<u>Line Item Description</u>	<u>Line Item Account</u>	
05/02/2017	FINISH RENU WASH & WAS, SPRAYWAY INSTANT SHINE	03-36-72000	169.15
Inv 2137	Total		169.15
6081710	Total:		169.15
7258 - SO CAL WAX SHOP Total:			169.15
603309 - SOUTHWEST AIRLINES Line Item Account			
6081711	06/08/2017		
Inv	5268519354307		
<u>Line Item Date</u>	<u>Line Item Description</u>	<u>Line Item Account</u>	
05/04/2017	AIRFARE FOR CONFERENCE IN OAKLAND - M MACK	03-20-75300	284.96
Inv 5268519354307	Total		284.96
6081711	Total:		284.96
603309 - SOUTHWEST AIRLINES Total:			284.96
603174 - VILLAGE PIZZA Line Item Account			
6081712	06/08/2017		
Inv	584965		
<u>Line Item Date</u>	<u>Line Item Description</u>	<u>Line Item Account</u>	
05/23/2017	4/23/17 BOARD MEETING LUNCH	03-20-75300	42.25
05/23/2017	4/23/17 BOARD MEETING LUNCH	03-41-75300	49.28

Check Number	Check Date		Amount
		Inv 584965 Total	91.53
		6081712 Total:	91.53
		603174 - VILLAGE PIZZA Total:	91.53
		8155 - WESTERN WATER WORKS SUPPLY Line Item Account	
		6081713 06/08/2017	
		Inv 444016-00	
		<u>Line Item Date</u> <u>Line Item Description</u> <u>Line Item Account</u>	
		05/05/2017 8" X 20" BUTT STRAP W/HANDHOLE 1/8 THICK STEEL P/N	2,456.70
		05/05/2017 6" X 20" BUTT STRAP W/HANDHOLE 1/8 THICK STEEL P/N	2,430.84
		Inv 444016-00 Total	4,887.54
		Inv 449581-00	
		<u>Line Item Date</u> <u>Line Item Description</u> <u>Line Item Account</u>	
		04/25/2017 CMLC PIPE 4" P/N - YL1000	1,029.23
		Inv 449581-00 Total	1,029.23
		Inv 449585-00	
		<u>Line Item Date</u> <u>Line Item Description</u> <u>Line Item Account</u>	
		04/25/2017 12" 150# RING GASKET P/N - G1013	69.50
		Inv 449585-00 Total	69.50
		Inv 449588-00	
		<u>Line Item Date</u> <u>Line Item Description</u> <u>Line Item Account</u>	
		04/25/2017 10-12 150# T316 SS FLG BLT KIT P/N - D2009	374.54
		Inv 449588-00 Total	374.54
		Inv 450373-00	
		<u>Line Item Date</u> <u>Line Item Description</u> <u>Line Item Account</u>	
		05/02/2017 6" BLK STEEL PIPE SCH 40 P/N - YL1017	1,347.30
		Inv 450373-00 Total	1,347.30
		Inv 451832-00	
		<u>Line Item Date</u> <u>Line Item Description</u> <u>Line Item Account</u>	
		05/12/2017 6" 300# 316SS FLG KIT - RESTOCK	647.30
		Inv 451832-00 Total	647.30
		6081713 Total:	8,355.41
		8155 - WESTERN WATER WORKS SUPPLY Total:	8,355.41

Check Number **Check Date**

Amount

Total:	<u>35,561.29</u>
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**Director's Expenses
FY 2016-2017**

Disbursement Date	Description	Dennis Sanford-25	Helene Brazier-27	Tory Walker-29	Richard Bigley	William Stewart	Retiree
07/31/16	CAL PERS - HEALTH INS. ASSURANT - DENTAL INS. CSDA,SAN DIEGO CHAPTER WATER AGENCIES ASSOC OF S.D. CONFERENCES (CSDA, ACWA, etc.) TRAINING (CSDA, ACWA, etc.) COUNCIL OF WATER UTILITIES DIRECTORS' PER DIEMS TRAVEL EXPENSES MILEAGE EXPENSE REIMBURSEMENT FROM DIRECTORS	\$ 695.00		\$ 25.00		\$ 695.00	\$ 367.52
	Monthly Totals	\$ 845.00	\$ 150.00	\$ 175.00	\$ 150.00	\$ 720.00	\$ (367.52)
08/31/16	CAL PERS - HEALTH INS. ASSURANT - DENTAL INS. CSDA,SAN DIEGO CHAPTER WATER AGENCIES ASSOC OF S.D. CONFERENCES (CSDA, ACWA, etc.) TRAINING (CSDA, ACWA, etc.) COUNCIL OF WATER UTILITIES DIRECTORS' PER DIEMS TRAVEL EXPENSES MILEAGE EXPENSE REIMBURSEMENT FROM DIRECTORS	\$ 150.00	\$ 150.00	\$ 150.00	\$ 150.00	\$ 150.00	\$ 367.52
	Monthly Totals	\$ 150.00	\$ 150.00	\$ 150.00	\$ 150.00	\$ 150.00	\$ (367.52)

**Director's Expenses
FY 2016-2017**

09/30/16	CAL PERS - HEALTH INS.								\$	367.52	
	ASSURANT - DENTAL INS.										
	CSDA,SAN DIEGO CHAPTER										
	WATER AGENCIES ASSOC OF S.D.										
	CONFERENCES (CSDA, ACWA, etc.)					\$	580.00	\$	580.00		
	TRAINING (CSDA, ACWA, etc.)										
	COUNCIL OF WATER UTILITIES					\$	25.00				
	DIRECTORS' PER DIEMS	\$	150.00	\$	150.00			\$	150.00		
	TRAVEL EXPENSES										
	MILEAGE AND EXPENSES										
	REIMBURSEMENT FROM DIRECTORS								\$	(367.52)	
	Monthly Totals	\$	150.00	\$	150.00	\$	25.00	\$	580.00	\$	730.00
									\$	-	

10/31/16	CAL PERS - HEALTH INS.								\$	367.52	
	ASSURANT - DENTAL INS.										
	CSDA,SAN DIEGO CHAPTER										
	WATER AGENCIES ASSOC OF S.D.										
	CONFERENCES (CSDA, ACWA, etc.)										
	TRAINING (CSDA, ACWA, etc.)										
	COUNCIL OF WATER UTILITIES					\$	25.00				
	DIRECTORS' PER DIEMS	\$	150.00	\$	150.00	\$	300.00	\$	150.00		
	TRAVEL EXPENSES										
	MILEAGE AND EXPENSES										
	REIMBURSEMENT FROM DIRECTORS								\$	(367.52)	
	Monthly Totals	\$	150.00	\$	150.00	\$	325.00	\$	-	\$	150.00
									\$	-	

**Director's Expenses
FY 2016-2017**

11/30/16	CAL PERS - HEALTH INS.								\$	367.52	
	ASSURANT - DENTAL INS.										
	CSDA,SAN DIEGO CHAPTER										
	WATER AGENCIES ASSOC OF S.D.										
	CONFERENCES (CSDA, ACWA, etc.)			\$	50.00			\$	62.00		
	TRAINING (CSDA, ACWA, etc.)										
	COUNCIL OF WATER UTILITIES										
	DIRECTORS' PER DIEMS	\$	300.00	\$	150.00	\$	150.00	\$	150.00	\$	150.00
	TRAVEL EXPENSES							\$	235.54	\$	471.06
	MILEAGE EXPENSE								\$	53.46	
	REIMBURSEMENT FROM DIRECTORS								\$	(367.52)	
	Monthly Totals	\$	300.00	\$	150.00	\$	200.00	\$	385.54	\$	736.52
									\$	-	
12/31/16	CAL PERS - HEALTH INS.									\$	367.52
	ASSURANT - DENTAL INS.										
	CSDA,SAN DIEGO CHAPTER										
	WATER AGENCIES ASSOC OF S.D.										
	CONFERENCES (CSDA, ACWA, etc.)										
	TRAINING (CSDA, ACWA, etc.)										
	COUNCIL OF WATER UTILITIES										
	DIRECTORS' PER DIEMS	\$	150.00	\$	150.00	\$	300.00			\$	150.00
	TRAVEL EXPENSES										
	MILEAGE EXPENSE								\$	81.44	
	REIMBURSEMENT FROM DIRECTORS									\$	(367.52)
	Monthly Totals	\$	150.00	\$	150.00	\$	300.00	\$	-	\$	231.44
									\$	-	

**Director's Expenses
FY 2016-2017**

Disbursement Date	Description	Miguel Gasca	Helene Brazier	Claude Hamilton	Michael Mack	William Stewart	Retiree
01/31/17	CAL PERS - HEALTH INS.						\$ 367.52
	ASSURANT - DENTAL INS.						
	CSDA,SAN DIEGO CHAPTER						
	WATER AGENCIES ASSOC OF S.D.						
	CONFERENCES (CSDA, ACWA, etc.)						
	TRAINING (CSDA, ACWA, etc.)			\$ 150.00	\$ 150.00		
	COUNCIL OF WATER UTILITIES						
	DIRECTORS' PER DIEMS						
	TRAVEL EXPENSES					\$ (162.21)	
	MILEAGE EXPENSE						
	REIMBURSEMENT FROM DIRECTORS						\$ (367.52)
	Monthly Totals	\$ -	\$ -	\$ 150.00	\$ 150.00	\$ (162.21)	\$ -
02/28/17	CAL PERS - HEALTH INS.						\$ 367.52
	ASSURANT - DENTAL INS.						
	CSDA,SAN DIEGO CHAPTER		\$ 30.00		\$ 30.00		
	WATER AGENCIES ASSOC OF S.D.						
	CONFERENCES (CSDA, ACWA, etc.)						
	TRAINING (CSDA, ACWA, etc.)						
	COUNCIL OF WATER UTILITIES				\$ 25.00		
	DIRECTORS' PER DIEMS		\$ 150.00	\$ 150.00	\$ 150.00	\$ 150.00	
	TRAVEL EXPENSES						
	MILEAGE EXPENSE			\$ 51.30	\$ 59.08		
	REIMBURSEMENT FROM DIRECTORS						\$ (367.52)
	Monthly Totals	\$ -	\$ 180.00	\$ 201.30	\$ 264.08	\$ 150.00	\$ -

**Director's Expenses
FY 2016-2017**

03/31/17	CAL PERS - HEALTH INS.								\$	367.52	
	ASSURANT - DENTAL INS.										
	WATER AGENCIES ASSOC OF S.D.										
	CONFERENCES (CSDA, ACWA, etc.)	\$	175.00		\$	175.00	\$	175.00	\$	175.00	
	TRAINING (CSDA, ACWA, etc.)										
	COUNCIL OF WATER UTILITIES	\$	25.00				\$	25.00			
	DIRECTORS' PER DIEMS	\$	150.00	\$	150.00	\$	300.00	\$	300.00	\$	150.00
	TRAVEL EXPENSES					\$	228.90	\$	228.90	\$	304.90
	MILEAGE EXPENSE					\$	23.54	\$	40.66		
	REIMBURSEMENT FROM DIRECTORS									\$	(367.52)
	Monthly Totals	\$	350.00	\$	150.00	\$	727.44	\$	769.56	\$	629.90
									\$	-	

04/30/17	CAL PERS - HEALTH INS.									\$	367.52	
	ASSURANT - DENTAL INS.											
	CSDA,SAN DIEGO CHAPTER											
	WATER AGENCIES ASSOC OF S.D.											
	CONFERENCES (CSDA, ACWA, etc.)											
	TRAINING (CSDA, ACWA, etc.)											
	COUNCIL OF WATER UTILITIES	\$	25.00						\$	25.00		
	DIRECTORS' PER DIEMS	\$	150.00	\$	150.00	\$	150.00	\$	150.00	\$	150.00	
	TRAVEL EXPENSES											
	MILEAGE EXPENSE	\$	31.78									
	REIMBURSEMENT FROM DIRECTORS										\$	(367.52)
	Monthly Totals	\$	206.78	\$	150.00	\$	150.00	\$	150.00	\$	175.00	
									\$	-		

**Director's Expenses
FY 2016-2017**

05/31/17	CAL PERS - HEALTH INS.										\$	367.52	
	ASSURANT - DENTAL INS.												
	WATER AGENCIES ASSOC OF S.D.												
	CSDA-SAN DIEGO CHAPTER		\$	30.00		\$	30.00						
	CONFERENCES (CSDA, ACWA, etc.)	\$	600.00			\$	600.00	\$	600.00				
	TRAINING (CSDA, ACWA, etc.)												
	COUNCIL OF WATER UTILITIES												
	DIRECTORS' PER DIEMS	\$	150.00	\$	150.00	\$	300.00	\$	150.00	\$	300.00		
	TRAVEL EXPENSES												
	MILEAGE EXPENSE	\$	31.03			\$	23.54	\$	66.88				
	REIMBURSEMENT FROM DIRECTORS										\$	(367.52)	
	Monthly Totals	\$	781.03	\$	180.00	\$	323.54	\$	846.88	\$	900.00	\$	-

**Director's Expenses
FY 2016-2017**

	Dennis Sanford-25	Helene Brazier-27	Tory Walker-29	Richard Bigley	William Stewart	Retiree
REPORT TOTAL (2016):	\$ 1,745.00	\$ 900.00	\$ 1,175.00	\$ 1,265.54	\$ 2,717.96	\$ -

	Miguel Gasca	Helene Brazier	Claude Hamilton	Michael Mack	William Stewart	Retiree
REPORT TOTAL (2017):	\$ 1,337.81	\$ 660.00	\$ 1,552.28	\$ 2,180.52	\$ 1,692.69	\$ -

Bank Reconciliation

May Check Register



Check No.	Vendor/Employee	Transaction Description	Date	Amount
Fund: 01 WATER FUND				
Department: 00				
ACH	ASTRA INDUSTRIAL SERV.INC	8" #100P POWERROL RUBBER KIT P/N - C2810	05/05/2017	1,342.99
ACH	CB&T / ACWA-JPIA	MONTHLY HEALTH & VISION INSURANCE - JUN 2017	05/04/2017	75,637.60
ACH	RENE BUSH	REIMBURSE RETIRED EMPLOYEE HEALTH INS - MAY 2017	05/24/2017	726.00
ACH	SAN DIEGO COUNTY WATER AUTH	WIRE TRANSFER FOR WATER PURCHASES_MAR 2017	05/04/2017	1,241,662.20
ACH	SHERRY MULLENNIX	REIMBURSE RETIRED EMPLOYEE HEALTH INS - MAY 2017	05/17/2017	300.00
ACH	CHARLES C. SNEED	REIMBURSE RETIRED EMPLOYEE HEALTH INS - MAY 2017	05/10/2017	363.00
ACH	GENE BUCKLEY	REIMBURSE RETIRED EMPLOYEE HEALTH INS - JUN 2017	05/17/2017	363.00
ACH	KEVIN MILLER	REIMBURSE RETIRED EMPLOYEE HEALTH INS - MAY 2017	05/01/2017	726.00
53361	FERGUSON WATERWORKS #1083	1-1/2 MNPT X 1-1/2 MNST BRS ADPT	05/01/2017	5,485.64
53372	VALLECITOS WATER DISTRICT	ANNUAL EMP ASSISTANCE PROGRAM. JUL 17-JUN18	05/01/2017	1,646.28
53380	GREYSTONE FINANCIAL SERVICES	Refund Check	05/04/2017	261.88
53383	IDG DISTRIBUTION GROUP	WIRE BRUSH SMALL P/N - K1053	05/04/2017	99.98
53394	FERGUSON WATERWORKS #1083	2" WILKINS 510XL PRESS REG P/N - F1170	05/05/2017	9,387.42
53405	FERGUSON WATERWORKS #1083	LF 3/4 CTS GRIP COMP X MIP COUP & LS 3/4 CTS GRIP X MTR ANG BV L	05/10/2017	32,854.60
53406	BRIAN FONSECA	EMPLOYEE COMPUTER ASSISTANCE PROGRAM	05/10/2017	1,943.42
53409	HD SUPPLY WATERWORKS, LTD	3/8"CV SPEED CONTROL STANDARD P/N - C1016	05/10/2017	5,734.48
53411	HERCULES INDUSTRIES, INC	LARGE MASTER LOCK #2975 1" P/N - S1006	05/10/2017	925.85
53432	SUSAN BERTELE	Refund Check	05/11/2017	23.74
53435	KEN & TRINA MILLER	Refund Check	05/11/2017	21.88
53436	LISA WATTERSON	Refund Check	05/11/2017	45.31
53451	M & M ESCROW CO	REFUND FOR NEW WATER SERVICE FEES PAID-CAPACITY FEES	05/17/2017	13,097.00
53452	M & M ESCROW CO	REFUND FOR NEW WATER SERVICE FEES PAID-OUTSIDE INVEN SALES	05/17/2017	225.00
53453	M & M ESCROW CO	REFUND FOR NEW WATER SERVICE FEES PAID-SEWER INSPECTION FEES	05/17/2017	1,100.00
53462	MARTIN BROWN	Refund Check	05/17/2017	94.12
53463	SIMON VALDEZ	Refund Check	05/18/2017	59.67
53468	FERGUSON WATERWORKS #1083	3/4" BALL VALVE W/LOCK J1900W P/N - F1252W	05/22/2017	3,026.48
Total for Department: 00				1,397,153.54
Department: 31 PUMPING				
53423	SAN DIEGO GAS & ELECTRIC	MONTHLY GAS AND ELECTRIC	05/10/2017	39,140.83
Total for Department: 31 PUMPING				39,140.83

Department: 32 OPERATIONS

ACH	AIRGAS USA, LLC	CYLINDER RENTAL: SMALL NITROGEN	05/05/2017	17.41
ACH	BABCOCK LABORATORIES, INC	MONTHLY WATER ANALYSIS	05/11/2017	520.00
ACH	MISSION VALLEY SANITATION-SD	PORTA POTTY RENTAL FOR WEED ABATEMENT	05/01/2017	141.07
53367	SAN DIEGO GAS & ELECTRIC	MONTHLY ELECTRIC SERVICE ACCT: 9632 211 707 2	05/01/2017	20.09
53371	UNION BANK (VISA)	CSDA TRAINING - COFFEY	05/01/2017	645.88
53387	STATE OF CA DEPT OF WATER RESOURCES	BECK DAM FEES	05/04/2017	16,466.00
53390	UTILITY SERVICE CO.	QUARTERLY TANK SERVICE: GOPHER TANK	05/04/2017	139,987.28
53393	CROP PRODUCTION SVC INC,	5LB GATORLINE	05/05/2017	62.06
53401	CALIFORNIA AIR RESOURCES BOARD	3 YEAR RENEWAL FOR PERP FOR UNIT 140 WHISPER WATT PORTABLE GNRTR	05/10/2017	575.00
53408	HACH	CL17 FREE CHLORINE REAGENT SET (HAZARDOUS)	05/10/2017	368.30
53414	LAYFIELD USA CORPORATION	CSPE GLUE, PRICE PER GALLON IN A 5 GALLON BUCKET	05/10/2017	523.19
53419	RAIN FOR RENT RIVERSIDE	EST. INSTALL LABOR	05/10/2017	2,505.00
53420	RYAN HERCO PRODUCTS CORP	LUTZ PUMP TUBE 39" SS SEAL-LESS	05/10/2017	1,543.26
53423	SAN DIEGO GAS & ELECTRIC	MONTHLY GAS AND ELECTRIC	05/10/2017	695.06
53429	ACCURATE MEASUREMENT SYSTEMS	SMAR DIFFERENTIAL PRESSURE HART TRANSMITTER	05/11/2017	1,801.46
53430	ACCURATE MEASUREMENT SYSTEMS	OLIVER VALVES MANIFOLD	05/11/2017	277.22
53439	AMERICAN WATER WORKS ASSOC.	M42 STEEL WATER STORAGE TANKS MANUAL, REVISED EDITION	05/17/2017	102.50
53469	FREEDOM AUTOMATION, INC.	TEST AND COMMISSION NEW PROGRAM ONSITE	05/22/2017	3,389.00
53471	HOME DEPOT	8" & 4" BLK CABLE TIE 100PK, REDWGNT WIRE CNNCTR 250PK	05/22/2017	36.33
53480	DEPT OF FORESTRY & FIRE PROTEC	WEED AND BRUSH ABATEMENT DONE BY CAL FIRE CAMP APRIL	05/24/2017	685.86

Total for Department: 32 OPERATIONS**170,361.97****Department: 34 WATER DISTRIBUTION**

ACH	AIRGAS USA, LLC	CYLINDER RENTAL: LARGE CARBON DIOXIDE	05/05/2017	39.44
ACH	AIRGAS USA, LLC	ELECT STCK E6010 1/8, ELECT STCK E6010 5/32, CLMP GRN	05/10/2017	918.82
ACH	AIRGAS USA, LLC	CYLINDER RENTAL	05/11/2017	79.07
ACH	ART'S TRENCH PLATE & KRAIL SERVICE CO,	RENTAL PICK-UP PER ARRAY, 10' K-RAIL & 20' K-RAIL	05/10/2017	1,990.00
ACH	ART'S TRENCH PLATE & KRAIL SERVICE CO,	11- 8X12 TRENCH PLATE RENTAL	05/17/2017	330.00
ACH	ART'S TRENCH PLATE & KRAIL SERVICE CO,	18X12 TRENCH PLATE RENTAL	05/22/2017	150.00
ACH	ART'S TRENCH PLATE & KRAIL SERVICE CO,	16X12 TRENCH PLATE RENTAL, DELIVERY AND PICK-UP FEE	05/24/2017	375.60
ACH	DRAVES PIPELINE, INC	EMERGENCY REPAIR OF WATER MAIN ON SILVERLEAF	05/01/2017	41,810.78
ACH	DRAVES PIPELINE, INC	EMERGENCY 12" WATER MAIN REPAIR AT OCEAN BREEZE RANCH	05/05/2017	8,987.70
ACH	DRAVES PIPELINE, INC	LEAK REPAIR VIA ENCINOS - 20% P & O	05/17/2017	42,929.76
ACH	DRAVES PIPELINE, INC	EMERGENCY LEAK REPAIR 5TH STREET, 20% P&O	05/22/2017	9,244.27
ACH	FALLBROOK EQUIPMENT RENTAL	TRAILER, CONCRETE MIXING, PORTLAND CEMENT, CONCRETE SAND, 3/4 RO	05/10/2017	172.40
ACH	FALLBROOK EQUIPMENT RENTAL	TRAILER, CONCRETE MIXING, CONCRETE, CEMENT, PEA GRAVEL	05/22/2017	161.64
ACH	JOE'S PAVING CO, INC	ASPHALT REPAIR ON RECHE ROAD AND TECALOTE DR.	05/05/2017	5,460.96
ACH	JOE'S PAVING CO, INC	ASPHALT REPAIR ON LARKWOOD CT.	05/10/2017	2,055.20
ACH	TRAFFIC SAFETY SOLUTIONS, LLC	TRAFFIC CONTROL - 3 MEN ON 4/4/17	05/01/2017	1,950.00
ACH	TWO OAKS SWEEPING	POWER SWEEPING SERVICES, 5/2/17	05/24/2017	542.50
ACH	UNDERGROUND SERVICE ALERT	RAI88 NEW TICKET CHARGES	05/05/2017	115.50
53366	DARREN MILNER	REIMBURSEMENT FOR AFTER-HOURS MEALS ON 4/20/17 (7 EMPLOYEES)	05/01/2017	58.68
53385	PETTY CASH	AFTER-HOURS MEAL - 4 EMPLOYEES	05/04/2017	183.17
53399	AMERICAN RIGGING	REPAIR OF LIFTING CHAIN	05/10/2017	213.35
53403	ESCONDIDO METAL SUPPLY, INC.	SHEET SALE 10, 11, 12 GAGE & SHEAR CHARGE X 10" X 0-1/8"	05/10/2017	65.06
53442	CECILIA'S SAFETY SERVICE	PATROL SERVICES AT 3861 PALOMAR DR, FALLBROOK ON 4/27/17 (REG HO	05/17/2017	1,590.00

Total for Department: 34 WATER DISTRIBUTION**119,423.90**

Department: 35 METER SERVICES

ACH	AIRGAS USA, LLC	CYLINDER RENTAL: SMALL AVETYLENE & SMALL OXYGEN	05/05/2017	34.82
53388	TEMECULA VALLEY BACKFLOW, INC.	RMWD DEVICE OVER 2"	05/04/2017	39,329.00
53412	HOME DEPOT	PVC UNION, BAG, BAG	05/10/2017	8.79
53426	TEMECULA VALLEY BACKFLOW, INC.	BACKFLOW ASSEMBLY REPAIR & WILKINS RUBBER KIT	05/10/2017	690.00

Total for Department: 35 METER SERVICES 40,062.61

Total for Fund:01 WATER FUND 1,766,142.85

Fund: 02 SEWER FUND

Department: 00

53435	KEN & TRINA MILLER	Refund Check	05/11/2017	6.57
53436	LISA WATTERSON	Refund Check	05/11/2017	11.48
53463	SIMON VALDEZ	Refund Check	05/18/2017	46.72

Total for Department: 00 64.77

Department: 61 WASTEWATER

ACH	AIRGAS USA, LLC	CYLINDER RENTAL: LG & SML AIR, SML CARBON DIOXIDE	05/05/2017	65.81
ACH	ATLAS PUMPING SERVICE	MONTHLY BIN RENTAL	05/01/2017	210.00
ACH	CITY OF OCEANSIDE	RAINBOW WASTEWATER AGREEMENT, RMWD MAY 2017 INV FY1617	05/15/2017	67,974.19
ACH	FALLBROOK EQUIPMENT RENTAL	COMPACTOR, JUMPING JACK - RR-	05/10/2017	97.40
53365	JOE'S HARDWARE	TRAY PAINT, LINER PAINT, ROLLER COVER, ROLLER FRM	05/01/2017	25.62
53377	CWEA	ANNUAL MEMBERSHIP RENEWAL FOR BRIAN FONSECA - ID #000030182I	05/04/2017	344.00
53385	PETTY CASH	CWEA CONFERENCE EXPENSE: CHRIS HAND	05/04/2017	48.20
53386	SAN DIEGO GAS & ELECTRIC	MONTHLY ELECTRIC SERVICE	05/04/2017	3,199.63
53395	J J SEPTIC	EMERGENCY 3700GAL TRUCK @195HR 1/20/17	05/05/2017	2,910.00
53398	RHO MONSERATE C.C.H.A.	ELECTRIC CHARGE	05/05/2017	242.17
53413	HOUSTON AND HARRIS	CCTV 1 MAN CREW	05/10/2017	13,110.00
53423	SAN DIEGO GAS & ELECTRIC	MONTHLY GAS AND ELECTRIC	05/10/2017	4,376.60
53427	WATER QUALITY SPECIALISTS	MONTHLY OPERATIONS - APR 2017	05/10/2017	1,950.00
53460	VICTOR VEENSTRA	OFFICE OF WATER PROGRAMS/OPS & MAINTENANCE COLLECTION VOL2 REIMB	05/17/2017	50.00
53469	FREEDOM AUTOMATION, INC.	TEST AND COMMISSION NEW PROGRAM ONSITE	05/22/2017	531.00
53472	JOE'S HARDWARE	RND WSH SLF DRL 1LB 3/4, RND WSH SLF DRL 1LB	05/22/2017	10.21

Total for Department: 61 WASTEWATER 95,144.83

Total for Fund:02 SEWER FUND 95,209.60

Fund: 03 GENERAL FUND**Department: 00**

ACH	CB&T / ACWA-JPIA	MONTHLY HEALTH & VISION INSURANCE - JUN 2017	05/04/2017	18.95
ACH	PUBLIC EMPLOYEES RETIREMENT	CALPERS PAYMENT FOR MAY (MEDICAL INS)	05/04/2017	354.73
ACH	PUBLIC EMPLOYEES RETIREMENT	UNFUNDED ACCRUED LIABILITY FOR RATE PLAN ID 1770	05/05/2017	20,353.85

Total for Department: 00**20,727.53****Department: 20 BOARD**

53379	MIGUEL GASCA	COUNCIL OF WATER UTILITIES MEETING TRAVEL EXPENSE REIMBURSEMENT	05/04/2017	31.03
53381	HAYDEN HAMILTON	SANTA MARGARITA WATERSHED COUNCIL MEETING MILEAGE REIMBURSEMENT	05/04/2017	23.54
53384	MICHAEL MACK	WATER RELIABILITY COALITION TRAVEL EXPENSE REIMBURSEMENT	05/04/2017	66.88
53402	CSDA, SAN DIEGO CHAPTER	ATTENDANCE AT 5/18/17 CSDA QRTL DINNER: BRAZIER & MACK	05/10/2017	60.00
53457	TEMECULA TROPHY CO.	DIRECTORS NAME BADGE AND NAME PLATES	05/17/2017	75.04

Total for Department: 20 BOARD**256.49****Department: 36 GARAGE**

ACH	ANELLE MANAGEMENT SERVICES	SERVICE REPAIR, VEH 75, HEATER FAULT CAUSED BY LOOSE JUNCTION CO	05/10/2017	627.11
ACH	CONTROLLED MOTION SOLUTIONS	PRESTOMATIC	05/24/2017	60.93
ACH	FLYERS ENERGY LLC	FUEL & OIL, ORDER #17-449877	05/01/2017	1,213.84
ACH	FLYERS ENERGY LLC	FUEL & OIL, ORDER #136239-17	05/10/2017	1,118.21
ACH	FLYERS ENERGY LLC	FUEL & OIL, ORDER #142256-17	05/11/2017	3,682.16
ACH	FLYERS ENERGY LLC	FUEL & OIL, ORDER #150677-17	05/17/2017	1,889.17
ACH	FLYERS ENERGY LLC	FUEL & OIL, ORDER #157108-17	05/24/2017	1,078.03
ACH	O'REILLY AUTO PARTS	ANTI-FREEZE 1 GAL	05/11/2017	160.56
ACH	O'REILLY AUTO PARTS	TAIL LAMP, MOTOR FLUSH, GAL STAB	05/22/2017	295.40
ACH	PARKHOUSE TIRE, INC.	FLEET SERVICE, 215/75R17.5, RECYCLING FEE, 4 3/8" BRASS VALVE	05/10/2017	752.80
ACH	PARKHOUSE TIRE, INC.	P255/70R17 110S FST DEST A/T OWL & CA RECYCLING FEE	05/22/2017	2,051.71
ACH	SAFETY-KLEEN	SERVICE/STOP FEE NON-PREQUAL CRANKCASE OIL & RECYCLE FEE	05/10/2017	165.30
ACH	SAFETY-KLEEN	5G BRAKE CLEANER - AQUEOUS, 30G PARTS WASHER, SURCHARGE	05/24/2017	434.14
ACH	SONSRAY MACHINERY LLC.	FUEL FILTER, FILTERS-HY, FUEL, HYDRAUL, HYDRAUL OI, ENGINE, TRNSM	05/11/2017	344.83
ACH	THE TRUCK LIGHTHOUSE	LED LIGHTBAR AND LED WORKLAMP	05/22/2017	459.77
53385	PETTY CASH	FUEL FOR STANDBY TRUCK #28	05/04/2017	107.55
53397	NETWORK FLEET, INC.	MONTHLY AIRTIME CHARGES FOR GPS TRACKING - MAY 2017	05/05/2017	780.00
53410	HEAVY VEHICLE ELECTRONIC LICENSE PLAT	MONTHLY SERVICE - APR	05/10/2017	27.65
53418	PULLTARPS MFG.	100" PULLROD W/HARDWARE BAG	05/10/2017	555.84
53421	S & R TOWING INC	CHEVROLET 2500 PICKUP TOWED FROM CITRUS DR TO DISTRICT	05/10/2017	150.00
53428	ZEP MANUFACTURING CO.	CLEAN EMS HAND CLEANER TOWEL AND ZEP TKO 4-1 GL	05/10/2017	84.25
53433	FALLBROOK AUTO PARTS	SERPENTINE BELT UNIT #71	05/11/2017	1,277.72
53434	FORD OF ESCONDIDO	PART: VC*3*B / ANTI-FR 2010	05/11/2017	262.42
53437	ACTIVE AUTO COLLISION	VEH 42 ADDITIONAL COST - PAINT AND HAZARDOUS WASTE DISPOSAL	05/17/2017	1,703.38
53438	ALPHA HEAVY DUTY TOWING	TRUCK 32 TOWING FROM RICE CANYON ROAD TO DISTRICT	05/17/2017	216.00
53443	COMMUNICATIONS SERVICES	MOBILE INSTALL #23 LABOR FEE	05/17/2017	250.00
53445	FALLBROOK AUTO PARTS	FS/HLDR	05/17/2017	77.52
53446	FORD OF ESCONDIDO	SEPARATOR, PART NO. DC3Z*6A785*C	05/17/2017	55.48
53449	JOE'S HARDWARE	BV-20/6 VINYL BOAT NUMBER 6	05/17/2017	43.65
53466	FALLBROOK AUTO PARTS	BULB FOR 2016 CHEVROLET TRUCK SILVERADO 1500 1/2 TON 4.3L	05/22/2017	58.06
53470	HARRISON'S EQUIPMENT	GASKET, HEAD CVR. REPL HONDA 12391-ZE2-020	05/22/2017	204.31
53473	THE WELD SHOP, INC	23.50 X 28.00 GRILL, #106 CASE 580N EP GRILL	05/22/2017	350.00

Total for Department: 36 GARAGE**20,537.79**

Department: 41 ADMINISTRATION

ACH	ACCELA, INC. #774375	WEB PAYMENTS WITH ONLINE-BILLS.COM	05/10/2017	2,115.00
ACH	DATAPROSE INC.	MONTHLY MAILING OF WATER BILLS AND NEWSLETTER	05/05/2017	1,102.67
ACH	HEALTH EQUITY	HSA MONTHLY ADMINISTRATION FEES_MAY 2017	05/25/2017	32.45
ACH	IMAGE SOURCE	MONTHLY COPY COUNT	05/24/2017	397.90
ACH	PUBLIC EMPLOYEES RETIREMENT	CALPERS REPLACEMENT BENEFIT FUND: D. SEYMOUR	05/01/2017	305.73
ACH	RAFTELIS FINANCIAL CONSULTANTS	PROFESSIONAL SERVICES FROM MARCH 1, 2017 TO MARCH 31, 2017	05/01/2017	6,403.31
ACH	REM MECHANICAL, INC	AC REPAIR (FAULTY THERMOSTAT)-BUILDING 1	05/01/2017	410.00
ACH	SHEPHERD & STAATS, INC.	IDI 17/18 MAILING DOMESTIC, PRINTING LETTERS & ENVELOPES	05/05/2017	144.12
ACH	SOUTHWEST ANSWERING SERVICE, INC.	MONTHLY ANSWERING SERVICE	05/01/2017	1,544.59
ACH	SPECIAL DISTRICT RISK	PROPERTY/LIABILITY INSURANCE-CERT, MOB/EQUIP/TRLR/VEH INVENTORY	05/17/2017	2,621.35
ACH	STREAMLINE	MONTHLY WEB MANAGEMENT FEE	05/22/2017	300.00
ACH	WESTERN LANDSCAPE MAINTENANCE PLUS,	LANDSCAPE MAINTENANCE SERVICE	05/01/2017	507.15
ACH	XEROX CORP.	MONTHLY LEASE	05/04/2017	1,422.83
53357	ADECCO USA, INC	STAFFING: A. LOPEZ ZAMORANO (CS CLERK)	05/01/2017	2,086.40
53359	COVERALL NORTH AMERICA, INC.	MONTHLY SERVICE	05/01/2017	559.14
53368	THE HOWARD E. NYHART COMPANY, INC	COMP & BENEFITS STUDY, PROF SVCS: 3/1/17-3/31/17	05/01/2017	9,561.00
53369	UNION BANK (VISA)	GM MEETING W/ JM- MEAL	05/01/2017	817.17
53370	UNION BANK (VISA)	CWEA DUES	05/01/2017	302.68
53373	VERIZON WIRELESS	MONTHLY CELLULAR SERVICE	05/01/2017	2,333.11
53376	COVERALL NORTH AMERICA, INC.	MONTHLY SERVICE	05/04/2017	995.00
53378	FALLBROOK WASTE AND RECYCLING	MONTHLY REFUSE AND RECYCLE	05/04/2017	345.60
53382	KARLEEN HARP	CALPELRA TRAVEL/CONFERENCE EXPENSE REIMBURSEMENT	05/04/2017	59.92
53389	UNION BANK (VISA)	MEETING - BREAKFAST	05/04/2017	27.78
53391	ADECCO USA, INC	STAFFING: A. ACHARTZ (CS CLERK)	05/05/2017	2,086.40
53396	MITEL LEASING	LEASE AGREEMENT	05/05/2017	287.19
53400	BONSALL PEST CONTROL	MONTHLY PEST CONTROL	05/10/2017	90.00
53402	CSDA, SAN DIEGO CHAPTER	ATTENDANCE AT 5/18/17 CSDA QRTL DINNER: KENNEDY & WASHBURN	05/10/2017	60.00
53407	INGA GUEMUNDSSON	REIMBURSEMENT FOR DAMAGES DUE TO SEWER BLOCKAGE	05/10/2017	20,571.00
53415	CATHRINE MATTICE	REMAINING BALANCE FOR 5/11/17 TRAINING PRGRM WORKPLACE BULLYING	05/10/2017	2,662.50
53416	MODULAR BUILDING CONCEPTS, INC	RENTAL AGREEMENT	05/10/2017	793.03
53417	ONESOURCE DISTRIBUTORS, LLC	PHIL 453753 F32T8/HL741/ALTO 30 PK, ADV ICN2P32N35I BALLAST	05/10/2017	386.35
53422	SAN DIEGO COUNTY ASSESSOR/RECORDER/C	PROCESSING FEE FOR RECORDING RELEASE OF LIEN DOC (1)	05/10/2017	13.00
53424	SHRED-IT USA LLC	MONTHLY SERVICE AGREEMENT	05/10/2017	133.40
53425	TEMECULA TROPHY CO.	TLC UPDATE, 25 YEAR ANNIVERSARY, 10 YEAR ANNIVERSARY	05/10/2017	187.87
53431	ADECCO USA, INC	STAFFING: A. ACHARTS & A. LOPEZ-ZAMORANO (CS CLERK)	05/11/2017	2,086.40
53440	AT&T	MONTHLY PHONE SERVICE	05/17/2017	89.92
53441	AT&T	MONTHLY PHONE SERVICE	05/17/2017	75.89
53450	JOHN CRABTREE SERVICES	MATERIAL - CLEANER	05/17/2017	151.50
53454	PITNEY BOWES INC.	MOISTENER REPLACEMENT KIT	05/17/2017	71.09
53455	PITNEY BOWES INC.	INK CARTRIDGE	05/17/2017	366.33
53458	THE HOWARD E. NYHART COMPANY, INC	PROFESSIONAL SERVICES-COMP & BENEFITS STUDY 4/1/17-4/30/17	05/17/2017	9,561.00
53459	TIME WARNER CABLE	MONTHLY INTERNET CONNECTION - MAY 2017	05/17/2017	1,250.00
53461	XEROX FINANCIAL SERVICES	MONTHLY LEASE	05/17/2017	565.83
53464	ADECCO USA, INC	STAFFING: A. ACHARTZ & A. LOPEZ-ZAMORANO (CS CLERKS)	05/22/2017	2,086.40
53474	ALERT LOCKSMITH	8 KEYS	05/24/2017	112.90
53475	AMERIGAS - TEMECULA	PROPANE GAS	05/24/2017	276.13
53476	AT&T	MONTHLY PHONE SERVICE	05/24/2017	576.36
53477	AT&T LONG DISTANCE	MONTHLY PHONE SERVICE	05/24/2017	16.12
53479	COVERALL NORTH AMERICA, INC.	MONTHLY SERVICE	05/24/2017	388.05
53481	VERIZON WIRELESS	MONTHLY CELLULAR SERVICE	05/24/2017	2,332.97
53482	CSDA, SAN DIEGO CHAPTER	CSDA DINNER MEETING - FUNDS REIMBURSED BY ATTENDEES	05/25/2017	90.00

Department: 43 SAFETY

ACH	AIRGAS USA, LLC	VST TWO-TONE MSH LG PLYST YLW 2" TP	05/01/2017	80.78
ACH	AIRGAS USA, LLC	VST TWO-TONE MSH 3X PLYST YLW 2" TP	05/05/2017	129.61
ACH	AIRGAS USA, LLC	DISPBL GLVS, GLV CHEM RES, SUNSCREEN, EYEWEAR, SWTBND, REPELLENT	05/10/2017	1,412.75
ACH	AIRGAS USA, LLC	MISC SAFETY SUPPLIES AND PPE / OPEN PO FOR 2017	05/17/2017	105.99
ACH	CALIFORNIA COMMERCIAL SECURITY	QUARTERLY MAINTENANCE AGREEMENT	05/04/2017	368.04
ACH	FIREHAWK CORPORATION	ANNUAL RE-CERTIFICATION OF DISTRICT FRIE EXTINGUISHERS	05/05/2017	1,660.76
ACH	T.R.Y. ENTERPRISES, INC.	PATROL SERVICE 4/1/17-4/30/17 FOR THE DISTRICT YARD	05/04/2017	985.00
ACH	T.R.Y. ENTERPRISES, INC.	PATROL SERVICES FOR 5/1/17 TO 5/31/17 HUNTLEY PUMP STATION	05/10/2017	985.00
53444	KENNY DIAZ	REIMBURSE FOR THE PURCHASE OF SAFETY WORK BOOTS	05/17/2017	150.00
53447	GIL FRANCO, TIRE HAULER	RECYCLING & DISPOSAL OF USED DISTRICT PASSENGER TIRES AND LIGHT	05/17/2017	161.00
53465	BOOT BARN INC	BOOTS FOR: STERRELL	05/22/2017	150.00

Total for Department: 43 SAFETY 6,188.93

Department: 51 FINANCE

ACH	DATAPROSE INC.	MONTHLY MAILING OF WATER BILLS AND NEWSLETTER	05/05/2017	2,806.16
53385	PETTY CASH	MAIL-CERTIFIED LETTER TO SWRCB	05/04/2017	33.25

Total for Department: 51 FINANCE 2,839.41

Department: 52 CUSTOMER SERVICE

ACH	DATAPROSE INC.	MONTHLY MAILING OF WATER BILLS AND NEWSLETTER	05/05/2017	1,537.12
ACH	TCN, INC	MONTHLY 48 HOUR NOTICE CALLS	05/04/2017	35.77

Total for Department: 52 CUSTOMER SERVICE 1,572.89

Department: 91 ENGINEERING

ACH	ALL THINGS FALLBROOK	RMWD LOGO EMBROIDERED ON 7 PROVIDED SHIRTS	05/05/2017	62.23
ACH	NOBEL SYSTEMS	GIS UPDATES FOR THE OLIVE HILLS ESTATES PROJECT	05/04/2017	845.00
ACH	NOBLE R. TUCKER	PROPERTY APPRAISAL FOR RMWD 3707 OLD HIGHWAY 395, FALLBROOK	05/17/2017	2,500.00
53358	DONNA LYNN ANDERSON	APPRAISAL SERVICES & TITLE REPORT FEES	05/01/2017	6,250.00
53362	HAZEN AND SAWYER	HYDRAULIC MODEL TRAINING AND HYDRAULIC MODELING SUPPORT	05/01/2017	2,632.50
53363	HOCH CONSULTING	AS-NEEDED CONSTRUCTION INSPECTION SERVICES, 3/1/17-3/31/17	05/01/2017	29,000.00
53374	WILLDAN FINANCIAL SERVICES	WATER & WASTEWATER ASSET COST AND CAPACITY FEE STUDY	05/01/2017	1,377.40
53404	EXCEL SHEET METAL, INC.	QUANTITY 1: 120' X 6' H-SECTION PRATT TRUSS TUBULAR STEEL PIPE	05/10/2017	36,000.00
53448	HAZEN AND SAWYER	HYDRAULIC MODEL TRAINING AND HYDRAULIC MODELING SUPPORT	05/17/2017	7,504.18
53467	FEDEX	DELIVERY SERVICE TO AND FROM NOSSAMAN	05/22/2017	235.25

Total for Department: 91 ENGINEERING 86,406.56

Total for Fund:03 GENERAL FUND 220,292.13

Fund: 26 NEW WATER SOURCES FUND

Department: 00

53456	RMC WATER AND ENVIRONMENT	INDIRECT POTABLE REUSE PRELIMINARY EVALUATION	05/17/2017	6,598.19
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Total for Department: 00 6,598.19

Fund: 52 SEWER CAPITAL REPLACEMENT

Department: 00

Total for Department: 00 0.00

Total for Fund:52 SEWER CAPITAL REPLACEMENT 0.00

Fund: 53 SEWER CAPITAL EXPANSION

Department: 00

53375	AMES CONSTRUCTION, INC	RELEASE OF 5% RETENTION HELD ON 3/22/16: TWO 42" STEEL CASINGS	05/04/2017	8,235.75
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Total for Department: 00 8,235.75

Total for Fund:53 SEWER CAPITAL EXPANSION 8,235.75

Fund: 60 WTR CAP EXPANSION/REPLACEMENT

Department: 00

53360	DAILY JOURNAL CORPORATION	LEGAL ADVERTISEMENT-KNOTTWOOD WAY WATERLINE IMPROVEMENT PROJE	05/01/2017	347.20
53364	INFRASTRUCTURE ENGINEERING	MOOSA CREST WATERLINE DESIGN	05/01/2017	40,010.30

Total for Department: 00 40,357.50

Total for Fund:60 WTR CAP EXPANSION/REPLACEMENT 40,357.50

Grand Total 2,136,836.02

Comparative Water Sales YTD from Prior Years

FISCAL YEAR 2017-2018

Quantity of Meters	User Code	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	Acre Feet
591	AD	33,310	29,712	36,164	31,255	32,514	30,935	27,243	19,989	17,733	14,039	27,870		690
403	AG	144,066	131,474	145,280	120,785	126,036	102,884	92,501	61,270	63,137	48,588	101,399		2,611
5	C	-	-	-	-	-	-	-	-	-	-	-		-
231	CM	33,715	42,488	33,812	26,189	24,168	16,762	18,502	48,862	19,156	19,093	39,809		740
30	CN	2,447	3,983	8,073	10,623	18,605	5,773	3,526	2,577	2,103	2,229	5,027		149
24	IS	2,320	2,440	2,793	2,488	2,335	1,700	1,339	1,038	695	1,087	1,591		46
88	MF	11,472	10,002	13,072	10,304	11,489	11,350	9,566	8,403	8,262	8,210	9,402		256
326	SC	179,822	156,120	202,103	148,336	176,307	145,994	119,086	84,941	75,753	58,716	126,633		3,383
1034	SD	244,799	223,157	271,457	222,398	243,725	210,020	185,162	112,432	111,709	72,554	186,185		4,783
5122	SF	174,946	165,760	194,809	155,004	162,664	146,096	120,654	96,800	89,344	80,190	137,775		3,499
7854	Total	826,897	765,136	907,563	727,382	797,843	671,514	577,579	436,312	387,892	304,706	635,691	-	16,158

FISCAL YEAR 2016-2017

Quantity of Meters	User Code	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	Acre Feet
591	AD	36,216	34,134	39,119	28,217	22,903	24,494	7,934	5,036	5,338	17,861	23635		562
403	AG	156,957	152,359	172,040	132,882	104,544	96,050	31,370	16,829	20,790	87,717	108448		2,479
5	C	-	-	-	-	-	-	-	-	-	-	0		-
231	CM	47,830	45,043	43,040	26,707	20,970	21,140	5,876	4,333	4,912	14,068	19093		581
30	CN	4,900	4,950	7,309	11,456	7,427	904		63	924	815	1545		93
24	IS	3,806	3,701	3,980	3,061	2,446	1,653	1,408	594	700	1,942	1382		57
88	MF	11,307	11,657	13,746	10,597	8,876	11,213	7,139	7,047	5,954	8,981	9382		243
326	SC	183,744	166,212	206,354	150,910	121,456	115,009	18,861	6,544	81,497	102,350	137573		2,963
1034	SD	279,246	253,718	298,226	222,243	181,674	171,322	39,597	18,148	21,918	127,268	178858		4,114
5122	SF	187,516	175,736	202,555	154,361	120,520	133,125	57,385	42,596	40,254	103,952	130470		3,096
7854	Total	911,522	847,510	986,369	740,434	590,816	574,910	169,570	101,190	182,287	464,954	610,386	-	14,187

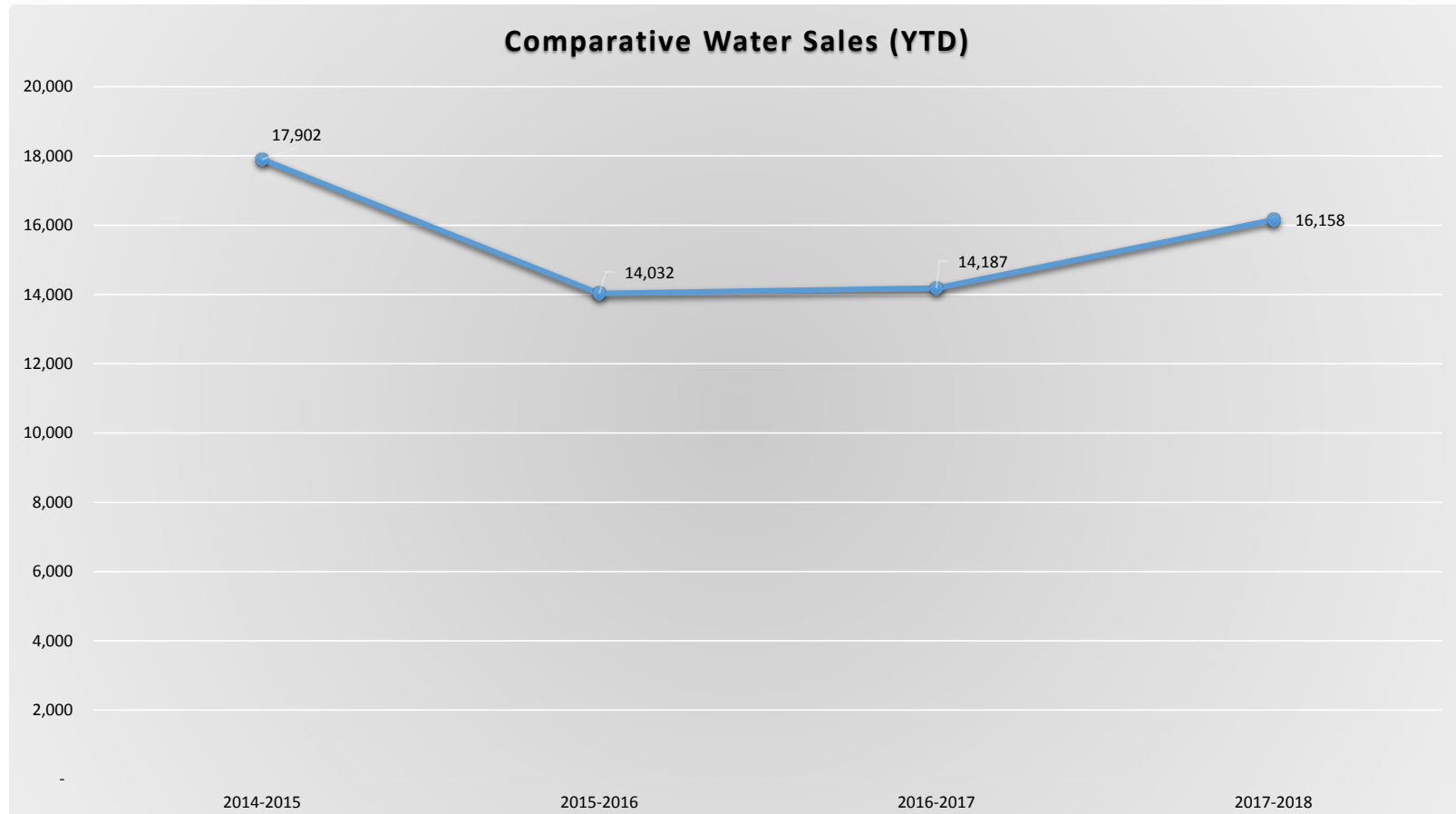
FISCAL YEAR 2015-2016

Quantity of Meters	User Code	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	Acre Feet
601	AD	29,891	26,212	33,050	25,166	24,907	20,638	12,532	10,056	19,640	18699	22364		558
404	AG	143,174	124,130	153,414	124,219	109,795	85,664	48,608	35,648	94,227	87294	100071		2,540
6	C	4,342	3,764	4,773	2,948	1,761	665	428	-	-	0	0		43
221	CM	28,620	33,259	34,668	28,374	14,569	11,399	8,431	8,591	11,738	13519	20166		490
37	CN	6,680	7,040	5,931	3,994	5,788	3,061	1,002	1,129	781	2559	2466		93
24	IS	2,773	2,779	2,486	3,073	3,299	2,641	828	796	2,141	1784	2271		57
88	MF	11,351	10,279	10,887	9,952	9,664	8,600	8,072	6,667	7,745	8832	8484		231
326	SC	162,756	144,892	188,145	132,002	133,998	109,284	46,707	38,985	108,085	92783	115815		2,923
1038	SD	245,736	213,120	257,965	197,426	188,412	162,042	82,599	57,837	154,618	131816	168901		4,271
5092	SF	148,573	143,404	162,621	135,030	120,706	96,899	69,380	52,522	95,133	95996	110843		2,826
7837	Total	783,896	708,879	853,940	662,184	612,899	500,893	278,587	212,231	494,108	453,282	551,381	-	14,032

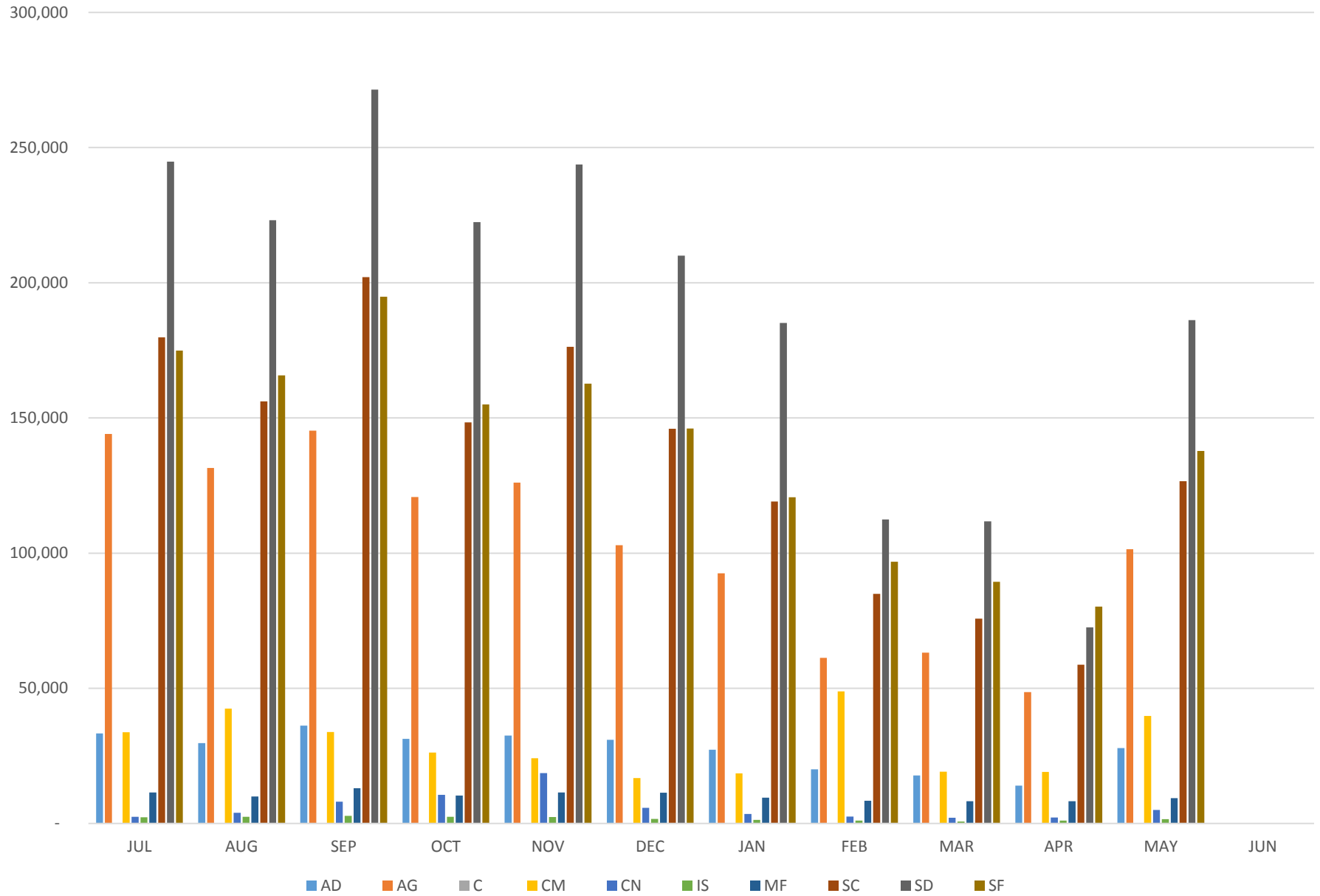
FISCAL YEAR 2014-2015

Quantity of Meters	User Code	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	Acre Feet
426	A	118,146	136,346	116,938	122,567	99,702	62,354	19,943	44,790	50,073	88589	89259		2,178
341	C	102,461	111,946	90,197	95,608	76,060	51,612	29,802	38,013	48,038	79301	93234		1,874
36	CN	3,175	3,510	3,579	2,898	1,119	372	1	-	22	1943	2925		45
5558	D	220,019	244,786	204,723	208,649	178,916	121,527	67,259	80,149	98,723	153107	162560		3,995
96	MF	15,917	16,081	14,016	14,241	13,689	10,249	8,659	8,017	8,763	13075	12905		311
323	SC	207,708	245,358	221,301	241,409	186,106	108,701	25,015	79,139	84,982	166849	168519		3,983
1040	SD	284,083	332,533	282,418	297,792	260,513	165,578	46,135	109,682	137,028	236291	250300		5,515
7820	Total	951,509	1,090,560	933,172	983,164	816,105	520,393	196,814	359,790	427,629	739,155	779,702	-	17,902

Comparative Water Sales YTD from Prior Years



USAGE BY CUSTOMER CLASS FY 17-18





**SEWER EQUIVALENT DWELLING UNITS (EDUs) STATUS REPORT
JUNE 2018**

STATUS SUMMARY	EDUs
Total Treatment Capacity Purchased from Oceanside	8,333.33
Less 5% Contractual Allowance	416.67
EDUs Set Aside by Board for Emergencies	60.00
EDUs Connected	4,576.52 *
EDUs Unconnected/Committed	516.20
Total EDUs Available for Purchase:	2,763.95

DEVELOPMENTS WITH UNCONNECTED/COMMITTED EDUs	EDUs	CAPACITY FEES PAID
Golf Green Estates (Dev. Solutions) - 102.46	70.06	\$ 1,320,021
Horse Creek Ridge (DR Horton/RAH) - 754	220.90	\$ -
Passarelle (HRC Commercial) - 96.57	96.57	\$ -
Polo Club (Vista Valley Dev.) - 165 Lots	59.85	\$ 1,022,775 **
Pala Mesa Highlands (Beazer Homes) - 159.3	55.62	\$ 1,125,127 ***
Others (5 or less)	13.20	\$ 204,156
TOTAL UNCONNECTED:	516.20	\$ 3,672,079

*There is a delay between connections and new account activations.

**Deferred total payment until building permits are issued.

***PMH paid additional funds to cover the initial 50% of sewer installment.

