



Control Number: 46439



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PUBLIC UTILITY COMMISSION
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SOAH DOCKET NO. 473-7-3320
PUC DOCKET NO. 47279 AND 46439

COMPLAINT OF WES ANDERSON ET AL. § PUBLIC UTILITY COMMISSION
AGAINST QUADVEST L.P., QUADVEST, §
INC., RANCH UTILITIES CORP.CORP. §
AND RANCH UTILITIES, L.P. § OF TEXAS

DIRECT TESTIMONY

OF

JEFFREY EASTMAN

ON BEHALF OF

**QUADVEST L.P., QUADVEST, INC., RANCH UTILITIES CORP.,
AND RANCH UTILITIES, L.P.**

DECEMBER 8, 2017

DIRECT TESTIMONY
OF JEFFREY EASTMAN

Table of Contents

I.	BACKGROUND AND QUALIFICATIONS.....	1
II.	PURPOSE OF TESTIMONY	2

Exhibits:

Exhibit A: Curriculum Vitae

Exhibit B: AMR Change Out Notice Summary and AMR Change Out Notice

Exhibit C: AUS Water Meter Installation Checklist

Exhibit D: Meter Testing Results

Exhibit E: Master Meter Test Stickers

Exhibit F: Master Meter Bench Accuracy Test Info

Exhibit G: Southern Flow Test Reports

Exhibit H: Southern Flowmeter Testing Manual

Exhibit I: Rainfall Patterns

Exhibit J: Complainants' Water Usage Summer 2016

Exhibit K: PUC Approval of \$2.60 Pass Through Fee

Exhibit L: Complainants' Sept 2016 Bills

DIRECT TESTIMONY OF JEFFREY EASTMAN

I. BACKGROUND AND QUALIFICATIONS

Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.

A. My name is Jeffrey Eastman. My business address is 26926 FM 2978, Magnolia, Texas, 77354.

Q. BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?

A. I am the chief financial officer of Quadvest LP ("Quadvest").

Q. PLEASE DESCRIBE YOUR EDUCATIONAL AND PROFESSIONAL EXPERIENCE.

A. I have a Bachelor's degree in accounting from Sam Houston State University. I have over 15 years work experience in various accounting and finance roles with several different companies, ranging from Deloitte and Touché, an international CPA and consulting firm, to Quadvest, a regulated water and sewer utility. I have worked at Quadvest for over four years and have attended NARUC's utility rate school during this period of employment. A copy of my curriculum vitae is attached hereto as Exhibit A.

Q. WHAT IS YOUR AREA OF RESPONSIBILITY FOR QUADVEST?

A. I oversee and manage all accounting and financial matters related to Quadvest. In addition, I manage the development of Quadvest's regulatory filings related to customer rates, customer service issues and more specifically the current complaint in this proceeding.

Q. HAVE YOU PREVIOUSLY FILED TESTIMONY BEFORE THIS COMMISSION?

A. Yes, I filed testimony in Docket 44809 and 46439.

1 stickers attached to each smart meter shipped. The testing results indicated that all
2 of the Complainants' meters have flow results within AWWA standards (98.5% to
3 101.5% accuracy) and overall meter accuracy for Complainants was 99.9%.

4 • No bill adjustments were required as all of the meters tested were within the
5 AWWA standard (98.5% to 101.5% accuracy), except for Mr. Gardaphe's meter,
6 which was under reporting flow and therefore Quadvest elected not to back bill Mr.
7 Gardaphe for such water usage.

8 • Quadvest was charging its approved pass-through fee, as reflected both on the
9 customer billing statements and the Commission-approved pass-through tariff.
10 Quadvest made no adjustments to Complainants' bills because Quadvest was
11 charging the properly approved pass-through fee.

12 **Q. AS AN INITIAL MATTER, WHAT ARE THE COMPLAINANTS' ADDRESSES**
13 **FOR WHICH THEY RECEIVE WATER UTILITY SERVICE?**

14 A. This testimony will address the rates and actions taken by Quadvest LP related to the
15 Complainants at the below addresses:

16 • Ms. Acebo's address is 10614 Serenity Sound, Magnolia, Texas 77354. Ms.
17 Acebo receives water service from Quadvest L.P.

18 • Ms. Barrett's address is 11018 Lake Windcrest Blvd., Magnolia Texas 77354. Ms.
19 Barrett receives water service from Quadvest L.P.

20 • Richard Deming's address is 10507 Crystal Cove Dr., Magnolia, Texas 77354.
21 Mr. Deming receives water service from Quadvest L.P.

22 • Ms. Erato's address is 32643 Green Bend Court, Magnolia, Texas 77354. Ms.
23 Erato receives water service from Quadvest L.P.

- 1 • Paul Gardaphe's address is 9335 Clubhouse Cir, Magnolia, Texas 77354. Mr.
2 Gardaphe receives water service from Quadvest L.P.
- 3 • Gladys Floyd's address is 10118 Clubhouse Circle, Magnolia, Texas 77354. Ms.
4 Floyd receives water service from Quadvest L.P.
- 5 • Mr. Hansen's address is 10314 Serenity Sound, Magnolia, Texas 77354. Mr.
6 Hansen receives water service from Quadvest L.P.
- 7 • Martin Leo's address is 10411 Serenity Sound, Magnolia, Texas 77354. Mr. Leo
8 receives water service from Quadvest L.P.
- 9 • Ashley Sanders' address is 12130 Clara Ln., Pinehurst, Texas 77362. Ms. Sanders
10 receives water service from Quadvest L.P.
- 11 • Allyn Watkin's address is 40610 Ithica Ln., Magnolia, Texas 77354. Mr. Watkins
12 receives water service from Quadvest L.P.
- 13 • Jill Westbrook's address is 9426 Deer Path Ln., Magnolia, Texas 77354. Ms.
14 Westbrook receives water service from Quadvest L.P.
- 15 • Fang Yiu's address is 29827 Edgewater Dr., Magnolia, Texas 77354. Mr. Yiu
16 receives water service from Quadvest L.P.

17 **Q. PLEASE DESCRIBE COMPLAINANTS' RESIDENCES.**

18 A. The majority (10 out of 12) of the Complainants live on acreage lots (1+ acre lots) noting
19 Quadvest tends to see higher water usage on acreage lots due to higher irrigation
20 requirements needed to properly maintain vegetation during summer months. In addition,
21 the majority (7 out of 12) of the Complainants have pools, which can also increase water
22 usage during summer months. The following resident descriptions were obtained directly
23 from Complainants' RFI responses.

- 1 • Ms. Acebo has a 1 acre lot in the Lake Windcrest Subdivision in Magnolia, Texas.
2 The residence does not have a pool.
- 3 • Ms. Barrett has a 2.80 acre lot in the Lake Windcrest Subdivision in Magnolia,
4 Texas. The residence does not have a pool.
- 5 • Mr. Deming has a 1 acre lot in the Lake Windcrest Subdivision in Magnolia, Texas.
6 The residence has a pool.
- 7 • Ms. Erato has a 1.48 acre lot in the Lake Windcrest Subdivision in Magnolia, Texas.
8 The residence has a pool.
- 9 • Ms. Floyd has a 1.97 acre lot in the Lake Windcrest Subdivision in Magnolia,
10 Texas. The residence does not have a pool.
- 11 • Mr. Gardaphe has a 2 acre lot in the Lake Windcrest Subdivision in Magnolia,
12 Texas. The residence has a pool.
- 13 • Mr. Hansen has a 2 acre acre lot in the Lake Windcrest Subdivision in Magnolia,
14 Texas. The residence does not have a pool.
- 15 • Mr. Leo has a 2 acre lot in the Lake Windcrest Subdivision in Magnolia, Texas.
16 The residence has a pool.
- 17 • Ms. Sanders has a 0.126 acre lot and lives in Decker Oaks Subdivision in Pinehurst,
18 Texas. The residence does not have a pool.
- 19 • Mr. Watkins has a .68 acre lot and lives in Mostyn Manor Subdivision in Magnolia,
20 Texas. The residence has a pool.
- 21 • Ms. Westbrook has a 1 acre lot and lives in Lake Windcrest Subdivision in
22 Magnolia, Texas. The residence has a pool.

1 • Mr. Yiu has a 2 acre lot and lives in Lake Windcrest Subdivision in Magnolia,
2 Texas. The residence has a pool.

3 **Q. DID QUADVEST NOTIFY ALL COMPLAINANTS OF THE ADVANCED METER**
4 **CHANGE OUT?**

5 **A.** Yes. Although this is not a requirement of the Public Utility Commission of Texas,
6 Quadvest sent an email to all customers on May 11, 2016 for which we had an email
7 address on file. We also included a message on all bills that went out in the month of May,
8 2016. See attached **Exhibit B (AMR Change Out Notices and AMR Change Out Notice**
9 **Summary)**. The only Complainant that did not get an email notification was Gail Acebo,
10 noting a copy of her May 2016 bill, which includes the AMR bill message, is included in
11 Exhibit B. In addition, Quadvest's 3rd party meter installer (AUS) was instructed to
12 announce their intention to change out the meter with resident while on site, see **Exhibit C**
13 **(AUS Water Meter Installation Checklist)**.

14 **Q. Did the tests performed by the manufacturer establish the accuracy of the**
15 **Complainants meters prior to installation in accordance with 16 TAC 24.89(f)? What**
16 **were the results of any tests conducted by the manufacturer on the smart meters**
17 **installed at the Complainants' residences?**

18 **A.** Yes. The AMRs installed were manufactured by Master Meter, a well-known and respected
19 advanced meter manufacturer in the industry. Master Meter tests and confirms all meters
20 meet AWWA standards prior to shipment, noting their test results are recorded on meter
21 identification stickers attached to each smart meter shipped. Master Meter tested all
22 Complainants' meters prior to installation and the testing results indicated that all the
23 Complainants' meters have flow results within AWWA standards (98.5% to 101.5%

1 accuracy). See summary of Master Meter testing results at **Exhibit D (Meter Testing**
2 **Results)**, specifically the section labeled “(Pre Install) Manufacturer Meter Accuracy”.
3 See actual Master Meter stickers reporting pre installation meter test results at **Exhibit E**
4 **(“Master Meter Test Stickers”)**. Also, please find attached letter issued by Master
5 Meter’s Chief Engineer (Walt Vetter), which details the standards and procedures used in
6 the testing of their smart meters (AMRs) at **Exhibit F (“Master Meter Bench Accuracy**
7 **Test Info”)**.

8 **Q. WHAT ARE THE AWWA STANDARDS FOR METER ACCURACY?**

9 A. AWWA standards for meter accuracy are between 98.5% AND 101.5% per AWWA’s
10 Manual 6.

11 **Q. DID QUADVEST TEST THE AMR METERS FOR ACCURACY POST**
12 **INSTALLATION?**

13 A. Yes, upon receiving the initial Complaint, Quadvest hired an independent third-party,
14 Southern Flowmeter, Inc. to conduct a random sampling of 15% the meters originally at
15 issue in this complaint for accuracy. Ms. Barrett, Ms. Floyd and Ms. Westbrook’s meter
16 were the 3 meters that were selected as the 15% random sampling done by Southern
17 Flowmeter, Inc. in October 2016, noting each of these 3 meters were found to be within
18 AWWA accuracy standards. In October 2017, the remainder of the Complainants’ meters
19 were tested.

20 **Q. ARE THE COMPLAINANTS’ METERS PROPERLY READING WATER USAGE**
21 **BASED UPON THIRD-PARTY TESTING?**

1 A. Yes. As mentioned above, Quadvest hired an independent third-party (Southern
2 Flowmeter, Inc.) to perform post-installation accuracy testing on the Complainants'
3 advanced meters at issue and the respective meters were found to be 97.1% accurate on
4 average. All the Complainants' meters were found to be within American Water Works
5 Association standards (98.5% to 101.5% accuracy), except Mr. Gardaphe's meter, which
6 was under reporting usage by 25%. Quadvest did not back bill Mr. Gardaphe's for any
7 under reported water usage. If Mr. Gardaphe meter was removed from the population of
8 Complainants' meters tested, the overall average accuracy increases to 99.2%. See
9 summary of Southern Flowmeter testing results at **Exhibit C (Meter Testing Results)**,
10 specifically the section labeled "Post Install (3rd Party Testing)". See actual Southern
11 Flowmeter, Inc. meter tests reports at **Exhibit G (Southern Flow Test Reports)**". See
12 Southern Flowmeter, Inc. meter testing procedure manual at **Exhibit H (Southern**
13 **Flowmeter Testing Manual)**.

14 **Q. IF THE COMPLAINANTS' METERS ARE NOT PROPERLY READING USAGE,**
15 **WHAT IS THE PROPER BILL ADJUSTMENT TO BE MADE, INCLUDING ANY**
16 **APPROPRIATE REFUND, IN ACCORDANCE WITH 16 TAC 24.89(G)?**

17 A. Mr. Gardaphe's meter is the only Complainants' meter that tested outside of the AWWA
18 accuracy standards. Mr. Gardaphe's meter tested at 75% weighted accuracy, thus under
19 reporting his water usage. Quadvest has elected not to make any adjustments to Mr.
20 Gardaphe's bill resulting from this under reporting of water usage.

21 **Q. IS THERE ANYTHING THAT STANDS OUT ABOUT COMPLAINANTS'**
22 **WATER USAGE DURING SUMMER OF 2016?**

1 A. Yes. Upon review of Complainants' usage logs obtained from their AMR meters for July
2 / August 2016 period and review of weather patterns during corresponding time frame it
3 appears the majority of the Complainants' water usage can be linked to irrigation. The first
4 item that stands out when reviewing the usage logs is the "high and low" pattern seen in
5 many of the Complainants' water usage. This type of pattern is indicative of irrigation as
6 most acreage lot customers will use well over a thousand gallons of water on irrigation
7 days and less on non-irrigation days. In addition, I noticed that many of the Complainants'
8 water usage dramatically decreased on or about August 13, 2016, which happen to coincide
9 with a rather significant rain fall event in Magnolia area (~10 inches) starting on August
10 13, 2016. **See Exhibit I, Rainfall Patterns.** This immediate decrease is further evidence
11 that Complainants water usage is directly linked to their irrigation routine and not general
12 household usage such as washing dishes and showering. **See Exhibit J (Complainants'**
13 **Water Usage Summer 2016).**

14 **Q. COMPLAINANTS ALLEGE THAT QUADVEST WAS CHARGING AN**
15 **IMPROPER PASS-THROUGH FEE. IS THAT CORRECT?**

16 A. No. Quadvest's Commission-approved tariff for FY2016 (Docket 45548) authorizes a
17 pass-through fee of \$2.60 per 1000 gallons, see **Exhibit K (PUC Approval of \$2.60 Pass-**
18 **Through Fee).** Quadvest charged the appropriate Commission-approved pass-through fee
19 of \$2.60. As an example, see the Complainants' September 2016 bills which charged the
20 approved \$2.60, noting the pass-through fee can be calculated by taking the consumption
21 in 1000s gallons multiplied by \$2.60, see **Exhibit L (Complainants' Sept 2016 Bills)** It
22 appears that the Complainants' allegation related to a pass-through fee of \$1.93 was in
23 reference to Quadvest's older tariff, not the Commission-approved tariff for FY2016.

1 **Q. WHAT IS THE COMMISSION-APPROVED PASS-THROUGH FEE UNDER**
2 **QUADVEST’S TARIFF?**

3 A. The Commission-approved pass-through fee is \$2.60 during most of FY2016.

4 **Q. IS QUADVEST CORRECTLY BILLING COMPLAINANTS FOR ITS**
5 **COMMISSION-APPROVED PASS-THROUGH FEE?**

6 A. Yes.

7 **Q. IF QUADVEST IS NOT CORRECTLY BILLING COMPLAINANTS FOR ITS**
8 **COMMISSION-APPROVED PASS-THROUGH FEE, WHAT IS THE PROPER**
9 **BILL ADJUSTMENT TO BE MADE, INCLUDING ANY APPROPRIATE**
10 **REFUND, IN ACCORDANCE WITH 16 TAC § 24.87?**

11 A. Quadvest was charging its Commission-approved pass-through fee; therefore, no refund is
12 needed.

13 **Q. DOES THIS CONCLUDE YOUR TESTIMONY?**

14 B. Yes.

Exhibit A

Jeffrey B. Eastman CV

EXPERIENCE:

- | | | |
|-------------------------------|---|----------------------|
| December 2012 -
Current | Quadvest LP
Director Of Accounting and Finance / CFO | Magnolia, Texas |
| | <ul style="list-style-type: none">• Manage all budgeting, forecasting and financial / business reporting for one of the largest privately held water utilities in the State of Texas• Oversee all treasury functions of the company• Develop and manage relationship with banks and other financial institutions• Oversee accounting department and assist in the preparation and supporting of year-end audited financial statements• Manage company's compliance efforts as they related to customer rates. | |
| April 2006 -
November 2012 | Webber LLC
Accounting Manager / Finance & Treasury Manager | The Woodlands, Texas |
| | <ul style="list-style-type: none">• Manage all budgeting, forecasting and financial / business reporting for largest civil contractor in the State of Texas; present financial reports and analysis to both local executive management and company's foreign parent• Oversee all treasury functions of the company• Develop and manage relationship with sureties, banks, and other financial institutions• Managed staff of 10 persons required to account for multiple reporting entities with combined revenues exceeding \$800M• Prepare and support year-end audited financial statements for multiple reporting entities along with associated consolidation package due foreign parent's audit firm• Review and authorize requests for capital expenditures including annual capital expenditure plan; develop NPV models to analyze and support capital expenditure decisions• Served as project lead on the implementation of several accounting packages including SAP and Spectrum By Dexter & Chaney• Report directly to CFO and provide insightful decision support | |
| February 2005 -
April 2006 | Calpine Corporation
Senior Accountant / Accounting Supervisor | Houston, Texas |
| | <ul style="list-style-type: none">• Manage business and accounting records, including the monthly close and account reconciliation process, for seven of Calpine's power plants with assets in excess of \$1.2B and annual revenue in excess of \$830M• Prepare year-end and quarterly stand-alone financial statements• Assist in the preparation of the annual plant budgets, which are used for both internal and external purposes• Effectively obtain data from and communicate financial results to division and corporate management, commercial management, and plant personnel | |

- Assistance with and compilation of Sarbanes-Oxley compliance tests as determined by internal and external audit groups, and associated ad-hoc projects as determined by management
- Responsible for compilation and review of regional cash flow forecast originating from upwards of 26 individual plant and business unit forecasts

February 2003 -
February 2005

Continental Airlines
Internal Auditor / Audit Analyst

Houston, Texas

- Document and test operational controls at various international and domestic airport, city, administrative and corporate offices; identify areas of improvement and formulate recommendations for management
- Assist in the development and review of Sarbanes – Oxley documentation and compliance processes
- Perform audit and cost analysis procedures to facilitate the management of the regional capacity purchase agreement
- Provided ad-hoc analytical support during the negotiation of a billion dollar regional capacity purchase agreement
- Prepare both annual budget and monthly forecasts for the regional capacity purchase agreement

January 2000 -
February 2003

Deloitte & Touche, LLP
Senior Auditor

Houston, Texas

- Industry experience: construction, energy trading and marketing, venture capital
- Coordinate and plan audit engagements, which includes budgeting, identifying and assessing business risks, planning substantive testing, and communicating with both engagement management and staff
- Provide an in-depth examination of financial statement accounts for SEC clients, various-sized private corporations, partnerships, and non-profit entities
- Document and test internal controls; identify areas requiring improvement and formulate recommendations to management.
- Research authoritative accounting literature for complex accounting issues and document conclusions as they apply to client
- Develop an understanding of internal control risks and methods for improvement
- Supervise engagement teams of up to three staff auditors
- Provide feedback and coaching to staff regarding job performance
- Advise clients on the issuance of financial reports in compliance with GAAP

EDUCATION

Sam Houston State University
BBA in Accounting, GPA 3.45, May 2000

NARUC Utility Rate School, May 2014

Exhibit B

AMR Change Out Notice Summary

name	acct #	Subdivision	service location	Notice of AMR meter change out
Ethel Barrett	18333101	Lake Windcrest	11018 Lake Windcrest Blvd	email sent 5/11/2016
Cail Stephens Acebo	00001104	Lake Windcrest	10614 Serenity Sound	bill message on 5/2016 bill
Mary Erato	00009310	Lake Windcrest	32643 Green Bend Court	email sent 5/11/2016
Gladys Floyd	18152001	Lake Windcrest	10118 Clubhouse Cir	email sent 5/11/2016
Randolph Hansen	00013176	Lake Windcrest	10314 Serenity Sound	email sent 5/11/2016
Allyn Watkins	00007963	Mostyn Manor	40610 Ithica Ln	email sent 5/11/2016
Jill Westbrook	00002905	Lake Windcrest	9426 Deer Path Ln	email sent 5/11/2016
Fang Yiu	00005631	Lake Windcrest	29827 Edgewater Dr	email sent 5/11/2016
Ashley Sanders	00013374	Decker Oaks	12130 Clara Ln	email sent 5/11/2016
Paul Gardaphe	00008386	Lake Windcrest	9335 Clubhouse Cir	email sent 5/11/2016
Richard Deming	00004412	Lake Windcrest	10507 Crystal Cove	email sent 5/11/2016
Martin Leo	00007103	Lake Windcrest	10411 Serenity Sound	email sent 5/11/2016

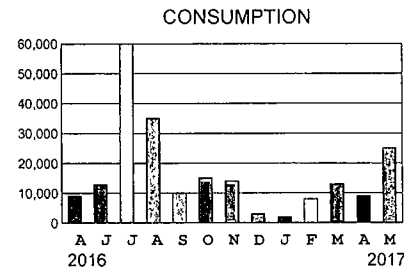
Quadvest, L.P.
PO Box 409
Tomball, TX 77377

KFP 45

BILLING DATE 05/10/16	DUE DATE 05/28/2016	ACCOUNT NUMBER 00001104
AMOUNT DUE IF PAID BY DUE DATE 71.18		AFTER DUE DATE AMOUNT 78.30
BILLING QUESTIONS? PLEASE CALL: (281) 356-5347		

ACCOUNT NUMBER	SERVICE DATES	DAYS USED
00001104	03/29 - 04/29	31
PREVIOUS READING	PRESENT READING	CONSUMPTION
1891000	1900000	9000
METER NUMBER	SERVICE LOCATION	
68851057	10614 Serenity Sound	
IMPORTANT MESSAGE		
<p>Quadvest will begin installing AMR meters mid-May through the end of June. Installers will knock on your door to notify you when your meter is being changed out. Your water service should only be interrupted for 10 to 20 minutes. Thank you for your business, we appreciate the opportunity to serve you and your family.</p>		

DESCRIPTION OF CHARGES	AMOUNT
PREVIOUS BALANCE	66.81
PAYMENTS	(66.81)
Water Base Rate	31.55
Usage	15.75
Regulatory Assessmnt	0.48
Pass-Thru Fee	23.40
	AMOUNT DUE
	71.18



To ensure proper credit, detach bottom portion and return in the enclosed envelope

Quadvest, L.P.
PO Box 409
Tomball, TX 77377

☐ If your address has changed, please check this box and make changes on reverse side

PLEASE SELECT THE CARD YOU WISH TO USE FOR PAYMENT				EXP DATE
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
CARD NUMBER				V-CODE
<input type="text"/>				<input type="text"/>
SIGNATURE				
<input type="text"/>				
BILLING DATE 05/10/16	DUE DATE 05/28/2016	ACCOUNT # 00001104		
BY DUE DATE 71.18	AFTER DUE DATE 78.30	AMOUNT PAID		

ADDRESSEE:

MAKE CHECKS PAYABLE AND REMIT TO:

Gail & Charlie Acebo
 10614 Serenity Sound
 Magnolia, TX 77354

Quadvest, L.P.
 PO Box 409
 Tomball, TX 77377



From: support@quadvest.com
To: ebarrett003@comcast.net
CC:
Subject: Installing AMR water meters
Message:

Quadvest will begin installing AMR water meters throughout its service areas beginning in mid-May, throughout the end of June.

AMR stands for Automated Meter Readers. It's a method of using communication technology to read meters without having to access the meter, which is located in a meter box in the ground.

Automated meter systems are quickly becoming the standard for utilities around the country. We've used this technology since 2014 when we initially converted 2 of our water districts. We currently have approximately 800 AMR meters in the ground. The efficiency gained in those areas will now be shared across our entire service area. These new devices allow for more accurate and faster collection of water usage readings than the current manual method and improve safety conditions for our staff.

AMR Technology

Will the electronic device on the meter interfere with other electronic equipment?

No. The radio transmission operates in compliance with Federal Communications Commission regulations to avoid interference with other electronic devices.

Has this new AMR equipment been tested for accuracy and reliability?

Yes, meters come pretested along with results directly from the manufacturer. The radio device will be tested for accuracy during the meter collection process regularly.

How will I know that you have my reading and not someone else's?

Each radio frequency device has a unique identification number, which is transmitted along with the meter reading. The unique number is compared to your account record to ensure a match.

Does this mean no more meter readers?

No, you will still periodically see Quadvest meter readers in your neighborhoods. There are times that the radio signal transmission is weak and meter readers may have to walk up to the meter before acquiring a read. Most reads will be acquired by simply driving by, or parking at certain "sweet spots" within your neighborhood. We'll continue to visit your property for routine service, maintenance or repair, and respond to water emergencies.

Installation

Do I have to be home for the meter replacement work?

No. Since the water meters are located outside of the home, you will not need to be home for the replacement work.

What happens if I have a problem after installation?

If you have a leak, low pressure or some other problem after installation, or at any other time, call 281.356.5347 during business hours to report the problem. Because your water will be turned off temporarily during the meter change process, you may experience a brief period of air or discolored water. In most cases, briefly running your cold water will clear this situation.

Can I cover up the meter after the installation?

No. Access needs to be available at all times. There will still be occurrences when meter technicians will visit the meter on-site to perform routine maintenance or verify high readings.

What if there's something in front of or blocking the meter?

Keep access to the water meter available at all times to ensure it's accessible for any potential emergency that would require the meter to be turned off.

My Bill

How does AMR benefit customers?

- Improved customer service by increasing accuracy of meter readings.
- Minimized need to access meters at the property.

Can I read the meter?

Yes, the meter looks the same as your existing water meter.

help

Data Entry

Navigation

Process

Customer

Enter search text		Account number	Account		Status	Company
16333101					Active	<None>
Billing cycle	Customer class	Primary phone #	Secondary phone #	Billing status		
28	CUSTOMER	(281) 923-2655 x	() x	Active		
Title	Last name	First name	Alternate name	Note		
	Barrett	Brian				
Horizontal	Estimate	Service Location	Horizontal	Contacts	Transactions	Current Average
Date	contact Name	Subject	Method	Type		
5/11/2016		Installing AMR water mete	Email	Email Notices		



From: support@quadvest.com
To: rjdeming@yahoo.com
CC:
Subject: Installing AMR water meters
Message:

Quadvest will begin installing AMR water meters throughout its service areas beginning in mid-May, throughout the end of June.

AMR stands for Automated Meter Readers. It's a method of using communication technology to read meters without having to access the meter, which is located in a meter box in the ground.

Automated meter systems are quickly becoming the standard for utilities around the country. We've used this technology since 2014 when we initially converted 2 of our water districts. We currently have approximately 800 AMR meters in the ground. The efficiency gained in those areas will now be shared across our entire service area. These new devices allow for more accurate and faster collection of water usage readings than the current manual method and improve safety conditions for our staff.

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Installation

Do I have to be home for the meter replacement work?

No. Since the water meters are located outside of the home, you will not need to be home for the replacement work.

What happens if I have a problem after installation?

If you have a leak, low pressure or some other problem after installation, or at any other time, call 281.356.5347 during business hours to report the problem. Because your water will be turned off temporarily during the meter change process, you may experience a brief period of air or discolored water. In most cases, briefly running your cold water will clear this situation.

Can I cover up the meter after the installation?

No. Access needs to be available at all times. There will still be occurrences when meter technicians will visit the meter on-site to perform routine maintenance or verify high readings.

What if there's something in front of or blocking the meter?

Keep access to the water meter available at all times to ensure it's accessible for any potential emergency that would require the meter to be turned off.

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- Minimized need to access meters at the property.

Can I read the meter?

Yes, the meter looks the same as your existing water meter.

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To: maryerato@sprynet.com
CC:
Subject: Installing AMR water meters
Message:

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Automated meter systems are quickly becoming the standard for utilities around the country. We've used this technology since 2014 when we initially converted 2 of our water districts. We currently have approximately 800 AMR meters in the ground. The efficiency gained in those areas will now be shared across our entire service area. These new devices allow for more accurate and faster collection of water usage readings than the current manual method and improve safety conditions for our staff.

AMR Technology

Will the electronic device on the meter interfere with other electronic equipment?

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Has this new AMR equipment been tested for accuracy and reliability?

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Installation

Do I have to be home for the meter replacement work?

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What happens if I have a problem after installation?

If you have a leak, low pressure or some other problem after installation, or at any other time, call 281.356.5347 during business hours to report the problem. Because your water will be turned off temporarily during the meter change process, you may experience a brief period of air or discolored water. In most cases, briefly running your cold water will clear this situation.

Can I cover up the meter after the installation?

No. Access needs to be available at all times. There will still be occurrences when meter technicians will visit the meter on-site to perform routine maintenance or verify high readings.

What if there's something in front of or blocking the meter?

Keep access to the water meter available at all times to ensure it's accessible for any potential emergency that would require the meter to be turned off.

My Bill

How does AMR benefit customers?

- Improved customer service by increasing accuracy of meter readings.
- Minimized need to access meters at the property.

Can I read the meter?

Yes, the meter looks the same as your existing water meter.

From: support@quadvest.com
To: gladysfloyd@yahoo.com
CC:
Subject: Installing AMR water meters
Message:

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Installation

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No. Since the water meters are located outside of the home, you will not need to be home for the replacement work.

RPP # 62

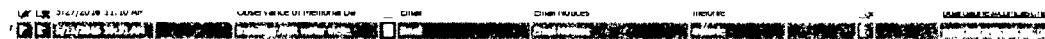
18152001

Billing cycle 28 **Customer class** CUSTOMER **Primary phone #** (281) 255-5193 x **Secondary phone #** () x **Billing status** Active

Title **Last name** Floyd **First name** Gladys **Alternate name** **Note**

Contacts **Transactions** **Current Message** **Leaders United** **Level Billing** **Company**

Date	contact Name	Subject	Method	Type	User
5/11/2016		Installing AMR water mete	Email	Email Notices	melo



From: support@quadvest.com
To: pgardaphe@comcast.net
CC:
Subject: Installing AMR water meters
Message:

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What if there's something in front of or blocking the meter?

Keep access to the water meter available at all times to ensure it's accessible for any potential emergency that would require the meter to be turned off.

My Bill

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Can I read the meter?

Yes, the meter looks the same as your existing water meter.

From: support@quadvest.com
To: bigrsproperties@gmail.com
CC:
Subject: Installing AMR water meters
Message:

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RCP 4174

Customer

Enter search text Account number Account Status Company
 00013176 Active <None>
 Billing cycle Customer class Primary phone # Secondary phone # Billing status
 28 CUSTOMER (832) 868-6073 x (281) 491-8773 x Active
 Title Last name First name Alternate name Note
 Hansen Randolph

Financial Services Service Location Financial Contacts Transactions Current Average Locations Owned Level Billing Control

Date	contact Name	Subject	Method	Type
10/19/2016	Billing	PUC Data Log	(none)	Data Log
10/19/2016	Pebble for Class Action Suit	Lake Windcrest	(none)	PUC/TCEQ Complaint
8/3/2016	iWebMS	Update email address	iWebMS	iWebMS Email Change
8/3/2016	Randolph Hansen	Change Mailing address	Phone	Account Changes
8/3/2016	Randolph Hansen	needed username	Phone	Billing Question
6/10/2016		2015 Annual Drinking Water	Email	Email Notices
5/11/2016		Installing AMR water meter	Email	Email Notices

From: support@quadvest.com

To: danaaleo@gmail.com

CC:

Subject: Installing AMR water meters

Message:

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My Bill

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Can I read the meter?

Yes, the meter looks the same as your existing water meter.

From: support@quadvest.com [support@quadvest.com]
Sent: Wednesday, May 11, 2016 11:03 AM
To: ashleynicole2909@gmail.com
Subject: Installing AMR water meters

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From: support@quadvest.com
To: mariawatkins2@gmail.com
CC:
Subject: Installing AMR water meters
Message:

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Customer

Enter search text Account number Account Status Company
 00007963 Active <None>
 Billing cycle Customer class Primary phone # Secondary phone # Billing status
 28 CUSTOMER (713) 805-3275 x (832) 519-4893 x Active
 Title Last name First name Alternate name Note
 Walkins Maria & Allyn

Date	contact Name	Subject	Method	Type	U
10/19/2016	Billing	PUC Data Log	(none)	Data Log	m
10/19/2016	Petition for Class Action Suit	Lake Wandcrest	(none)	PUC/TCEQ Complaint	m
5/27/2016		Observance of Memorial Da	Email	Email Notices	m
5/19/2016	Maria	pass through fee	Phone	Billing Question	m
5/11/2016		Installing AMR water mete	Email	Email Notices	m

Quadvest, L.P.
Meter Maintenance - Transactions - Readings

40

Date : 6/26/2017 11 01 06 AM
 User Name : cryals

Meter/ID Number : 12232433 Current Physical Location : 40610 Ithaca Lane Book Sequence : 24 0251 Meter Model : 5/8" AMR Meter Type : WATER Last Install Date : 06/30/2016	Serial Number : 10662182 Manufacturer : MASTER METER Warranty Date : 06/28/2036 Last Removal Date :
--	--

Readings Information

High/Low Code : 200/50 Usage Multiplier : 1.0 Reading Multiplier : 1000 0 Rollover Digits : 8 0 Last Reading : 194000 00000 Meter Read By :	Scrap Date : Reading Type : Normal Unit of Measure : GA Last Read Date : 06/05/2017 Last Usage : 34000.00000
--	---

Service Location : <All>
Date Range : -

Date	Reading	Usage	Demand	Reader	Location	Estimated	Backwards	Change Out
06/05/2017	194000.0	34000.0			40610 Ithaca Lane			
05/04/2017	160000.0	23000.0			40610 Ithaca Lane			
04/04/2017	137000.0	6000.0			40610 Ithaca Lane			
03/06/2017	131000.0	5000.0			40610 Ithaca Lane			
02/07/2017	126000.0	8000.0			40610 Ithaca Lane			
01/06/2017	118000.0	4000.0			40610 Ithaca Lane			
12/07/2016	114000.0	13000.0			40610 Ithaca Lane			
11/07/2016	101000.0	22000.0			40610 Ithaca Lane			
10/05/2016	79000.0	5000.0			40610 Ithaca Lane			
09/02/2016	74000.0	31000.0			40610 Ithaca Lane			
08/03/2016	43000.0	40000.0			40610 Ithaca Lane			
07/01/2016	3000.0	3000.0			40610 Ithaca Lane			
06/28/2016	0.0	0.0			40610 Ithaca Lane			
06/30/2016	0.0	0.0			WAREHOUSE			

From: support@quadvest.com
 To: westbrookjaw@aol.com
 CC:
 Subject: Installing AMR water meters
 Message:

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Can I read the meter?

Yes, the meter looks the same as your existing water meter.

RSP# 137

Customer

Enter search text	Account number	Account		Status	Company
00002905				Active	<None>
Billing cycle	Customer class	Primary phone #	Secondary phone #	Billing status	
28	CUSTOMER	(936) 524-2638 x	(281) 789-7560 x	Active	
Title	Last name	First name	Alternate name	Note	
	Westbrook	Jill			

Date	Contact Name	Subject	Method	Type	Us
5/11/2016		Installing AMR water meter	Email	Email Notices	me
4/22/2016		Account	Phone	Balance Inquiry	me

From: support@quadvest.com
To: flora.yiu@gmail.com
CC:
Subject: Installing AMR water meters
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Exhibit C

AUS Water Meter Installation checklist

Arrival at Location

1	Ensure Vehicle Hazard Lights are on and operational
2	Ensure vehicle is far enough off road to not impede traffic on roadway
3	If not already on make sure AUS provided vest is properly worn
4	Place a traffic cone on the road at the front and rear of your vehicle
5	Open lid to meter to ensure correct location based on old meter number
6	Visual inspection of meter box and contents for existing leaks and damaged components (If damaged or leaking contact project manager immediately and document on leadsheet)
7	Knock at the door most accessible to the front yard to announce your intentions to the resident or employee at that address.
8	Only enter structure if the meter is located inside and adult present. (NO EXCEPTIONS!!!!)

Procedures for meter installation

9	Observe existing meter to ensure no water consumption is occurring prior to water shutoff
10	Turn water off at curbside
11	Inspect meter lid to ensure MXU antenna will fit in hole cut in 1/3 end of lid (if any issues with lid document on leadsheet)
12	(Job specific SENSUS) Deactivate smart point while connected to old meter; Place Comm link on smart point press start on Juno, press deactivation option display should read deactivation success (If deactivation doesn't confirm contact project manager)
13	Remove old meter (if pipes or fittings are damaged contact project manager and document on leadsheet)
14	Install New Meter ensuring correct direction of flow and install new gasket to each side of meter, ensure proper size and thickness. (Extreme attention should be placed as to not allow debris and dirt to enter service lines) Start threading meter nuts by hand it should be easy to turn by hand for 2 turns if not back it off to ensure you don't cross thread.
15	SLOWLY turn water on at curbside and ensure it is completely turned on.
16	Visually check new installed meter and piping for leaks (make corrections if necessary)
17	Turn on closest outside faucet at structure to ensure water is flushed and clear before turning off faucet at the structure completely
18	Start Activation Process (ensure 5 min have passed from deactivation to starting activation process); Place Comm link on Smart Point, press start on Juno, choose appropriate configuration in Juno, Juno will notify installer to complete physical install at this point remove comm link from MXU and place lid correctly on meter box, place comm link on top of MXU antenna and press ok on the Juno, display should read activation success, ensure meter and MXU match paperwork, press disconnect option on Juno to disconnect MXU from comm link. (if failed to activate, deactivate and reactivate again)
19	Data collection (ensure AUS ID on leadsheet matches handheld); Update GPS coordinates, complete required field/information in handheld, completely fill all fields on leadsheet (ensure notes are clear and concise)

Pre-Departure Steps

20	Ensure yard and/or location of install is returned to the condition it was found in to the best of your ability
21	(Install depending) Box resets and re-piping pay special attention to the yard and area to return as much dirt and grass to original condition (this may require additional tools to complete, rake yard if needed)
22	Collect all tools and old meter and ensure no trash or anything is left in yard or in meter box

Installation Checklist

Exhibit D

Meter Testing Results

Complainants Summary				(Pre Install) Manufacturer Meter Accuracy					Post Install (3rd Party Testing)							
Acct #	FIRST Name	Last Name	Address	Date of Manufacturer Test	High	Med	Low	Manufacturer Calc Accuracy %	Date Tested By 3rd Party	High	Med	Low	3rd Party Test Calc Accuracy %			
1104	Gail	Stephens-Acebo	10614 Serenity Sound	5/13/2016	99.8%	99.0%	98.6%	99.0%	10/4/2017	101.0%	99.0%	101.0%	99.8%			
18333101	Ethel	Barrett	11018 Lake Windcrest Blvd	6/3/2016	100.1%	99.4%	98.6%	99.4%	10/27/2016	100.3%	99.0%	99.0%	99.2%			
4412	Richard	Deming	10507 Crystal Cove	5/13/2016	100.7%	100.2%	100.7%	100.3%	10/4/2017	100.7%	100.6%	99.0%	100.3%			
9310	Mary	Erato	32643 Green Bend Court	5/13/2016	99.9%	101.2%	102.5%	101.2%	10/4/2017	100.9%	101.0%	101.0%	101.0%			
18152001	Gladys	Floyd	10118 Clubhouse Cir	6/3/2016	100.5%	99.5%	98.2%	99.5%	10/27/2016	99.1%	99.7%	100.0%	99.6%			
8386	Paul	Gardaphe	9335 Clubhouse Cir	6/3/2016	100.7%	99.7%	98.9%	99.7%	10/4/2017	91.6%	92.3%	1.8%	75.0%			
13176	Randolph	Hansen	10314 Serenity Sound	6/3/2016	100.6%	99.8%	98.2%	99.7%	10/4/2017	90.0%	99.0%	94.5%	96.5%			
7103	Martin	Leo	10411 Serenity Sound	5/16/2016	99.0%	99.8%	101.6%	99.9%	10/4/2017	100.7%	100.0%	100.0%	100.1%			
13374	Ashley	Sanders	12130 Clara Ln	5/11/2016	100.4%	100.3%	99.4%	100.2%	10/4/2017	100.8%	101.5%	100.0%	101.1%			
7963	Allyn	Watkins	40610 Ithica Ln	5/6/2016	100.2%	99.9%	99.4%	99.9%	10/4/2017	100.8%	94.8%	99.0%	96.7%			
2905	Jill	Westbrook	9426 Deer Path In	6/3/2016	100.6%	100.1%	98.8%	100.0%	10/27/2016	97.5%	99.3%	100.0%	99.1%			
5631	Fang	Yiu	29827 Edgewater Dr	6/3/2016	100.5%	100.1%	97.9%	99.9%	10/4/2017	93.5%	98.3%	98.2%	97.4%			
							Average	99.9%						Average	97.1%	
															Average ex. Paul Gardaphe Meter	99.2%


Exhibit E

1/23/2017

6114c767-8cf6-4991-9938-daf7502a487c.jpg (1440x2560)

RFP # 42
43
46

QUADVEST CYCLE 2R

AUS_WO 655	LOCATE	CYCLE 28	BOOK 18	SEQUENCE 350	AUSID QUAD_BK018_0346
ACCT_NUM 00001104	STATUS_1 A	FIR_NAME Gail &	LAST_NAME Apeho		
ADDRESS 10614 Serenity Sound			CITY_1 Magnolia		
LOC_INFO 0			MTR_INFO Right		
AUDIT ONLY NO	METER_SIZE 3/4	LAST_READ 1900000	FINAL READ 1941		
WATER OFF? NO	SER_NUM	OLD_MTRNUM 68851057			
NEW METER NUMBER			RADIO NUMBER		
DATE INSTALLED 7-16-16	BL 5/8X3/4 LF/BR USG 3GDS PL 3 227 05/13/2016		 12200027		
ADDITIONAL SERVICES					
NOTES					
INSTALLER Eddy					

655

AUS_WO 542		LOCATE	CYCLE 28	BOOK 18	SEQUENCE 235	AUSID QUAD_BK018_0233	RFP# 34 # 37 33
ACCT_NUM 18333101		STATUS_1 A		FIR_NAME Brian		LAST_NAME Barrett	
ADDRESS 11018 Lake Windcrest Blvd.				CITY_1 Magnolia			
LOC_INFO 0				MTR_INFO Right			
AUDIT ONLY No		METER_SIZE 1		LAST_READ 2360000		FINAL READ 2424	
WATER OFF? No		SER_NUM 65400579				OLD_MTRNUM 65400579	
DATE INSTALLED 7/5/16		NEW METER NUMBER				RADIO NUMBER	
<div>BL 1" LF/BR USG 3GDS PL-SG 10 High 100.1 Inter 99.4 Low 98.6 3 227 06/03/2016 SN - 8898875</div>				<div> 13163873</div>			
NOTES				ADDITIONAL SERVICES			
				INSTALLER D90:DW			

542

722

LOCATE

ROADVEST LEADSHEET

CYCLE

BOOK

28

18

STATUS

ACCT_NUM

AUS_WC

723

28

18

418

QUAD_BK018_0414

ACCT_NUM	STATUS_1	FIR_NAME	LAST_NAME
00004412	A	Richard &	Deming

ADDRESS	CITY_1
10507 Crystal Cove	Magnolia

LOC_INFO	MTR_INFO
0	Left

AUDIT ONLY	METER_SIZE	LAST_READ	FINAL READ
<i>no</i>	3/4	2027000	<i>2144</i>

WATER OFF?	SER_NUM	OLD_MTRNUM
<i>no</i>	72810900	72810900

NEW METER NUMBER	RADIO NUMBER

DATE INSTALLED

7/29/16

5/8X3/4 LF/BR USG 3GDS PL
2 228
03/13/2016
High 100.7
Inter 100.2
Low 100.7
SN - 10663318

12245700

ADDITIONAL SERVICES

NOTES

INSTALLER

Bobby/Eddy

723

RFP #51
#62
#65

QUADVEST LEADSHEETS CYCLE 28

AUS_WO	LOCATE	CYCLE	BOOK	SEQUENCE	AUSID
1034		28	18	732	QUAD_BK018_0725

ACCT_NUM	STATUS_1	FIR_NAME	LAST_NAME
00009310	A	Timothy	Moore

ADDRESS
32643 Green Bend Court

CITY_1
Magnolia

LOC_INFO
0

MTR_INFO
Left

AUDIT ONLY
NO

METER_SIZE
3/4

LAST_READ
1543000

FINAL_READ
1581

WATER OFF?
NO

SER_NUM
72559806

OLD_MTRNUM
72559806

NEW METER NUMBER

RADIO NUMBER

DATE INSTALLED
7-18-16

BL 5/8X3/4 LF/BR USG 3CDS PL

1 224

05/13/2016

High 95.1
Inter 101.2
Low 102.5

17

13142829

ADDITIONAL SERVICES

NOTES

INSTALLER
T.E

1034

RFP #60
#61
#64

QUADVEST LEADSHEETS CYCLE 1

AUSID	LOCATE	CYCLE	BOOK	SEQUENCE	AUSID
1115		28	18	813	QUAD_BK018_0806

ACCT_NUM	STATUS_1	FIR_NAME	LAST_NAME
18152001	A	Gladys	[REDACTED]

ADDRESS	CITY_1
10118 Clubhouse Cir	Magnolia

LOC_INFO	MTR_INFO
0	Right

AUDIT ONLY	METER_SIZE	LAST_READ	FINAL READ
NO	1	4051000	4129

WATER OFF?	SER_NUM	OLD_MTRNUM
NO	1204675	1204675

NEW METER NUMBER	RADIO NUMBER

DATE INSTALLED	BL 1" LF/BR USG 3GDS PL-SG	14
7/18	3 227	14
	05/03/2016	05/03/2016

12242338

ADDITIONAL SERVICES

NOTES

INSTALLER

Shane

1115

AUS_WO

LOCATE

QUADVEST LEADSHEETS CYCLE 28

1072

QUADVEST LEADSHEETS CYCLE 28

AUS_WO

LOCATE

CYCLE

BOOK

SEQUENCE

AUSID

1082

28

18

780

QUAD_BK018_0773

ACCT_NUM

STATUS_1

FIR_NAME

LAST_NAME

00008386

A

Paul

Gardaphe

ADDRESS

9335 Clubhouse Cir

CITY_1

Magnolia

LOC_INFO

entrance to right of driveway gate code

7189

MTR_INFO

Left

AUDIT ONLY

METER_SIZE

LAST_READ

FINAL READ

1

4963000

5084

WATER OFF?

SER_NUM

OLD_MTRNUM

218072

218072

NEW METER NUMBER

RADIO NUMBER

DATE INSTALLED

BL 1" LF/BR USG 3GDS PL-SG

1

224

18

High 100 7
Inter 99 7
Low 98 9

05/03/2016

SN - 8898752

12242539

ADDITIONAL SERVICES

NOTES

INSTALLER

1082

[illegible]

682		28	18	377	AUSID QUAD_BK018_0373
ACCT_NUM	STATUS_1	FIR_NAME	LAST_NAME		
00007103	A	Dana &	Leo		
ADDRESS		CITY_1			
10411 Serenity Sound		Magnolia			
LOC_INFO		MTR_INFO			
0		Back Left			
AUDIT ONLY	METER_SIZE	LAST_READ	FINAL READ		
<i>ND</i>	3/4	2528000	2593		
WATER OFF?	SER_NUM	OLD_MTRNUM			
<i>ND</i>	68028562	68028562			
DATE INSTALLED	NEW METER NUMBER	RADIO NUMBER			
<i>7/16/16</i>	BL 5/8X3/4 LF/BR USG 3GDS PL 4 213 15/16/2016	12233214			
13 High 99 Inter 99.8 Low 101.6 SN - 10659973		12233214			
NOTES		ADDITIONAL SERVICES			
INSTALLER		<i>Bobby</i>			
682					

1/18/2017

3e90ae3c-2ca1-4937-b045-dcaac0a83c55.jpg (1440x2560)

RFP #159
#160
#163

1 2 3 +
0 . % = x

LOCATE CYCLE BOOK SEQUENCE
14 46 137

QUAD_BK046_0137

ACCT_NUM 00013374 STATUS_1 A FIR_NAME Ashely LAST_NAME Sanders

ADDRESS 12130 Clara Ln CITY_1 Pinehurst

LOC_INFO 0 MTR_INFO 0

METER_SIZE 3/4 LAST_READ 175000 FINAL READ 0190

SER_NUM 9315347 OLD_MTRNUM 9315347

NEW METER NUMBER RADIO NUMBER

BL 5/8X3/4 LF/BR USG 3GDS PL
2 228 18 High 100.4
05/11/2016 Inter 100.3
SN - 10655933 Low 99.4

13140437

ADDITIONAL SERVICES


NOTES

INSTALLER
MARTIN LUKE

1991

1/18/2017

5d3d8577-41a6-44bd-a85a-40d19029f611.jpg (2560x 1440) RFP #114 #115 #118

20		24	229	QUAD_RK024_0227
ACCT_NUM	STATUS_1	FIR_NAME	LAST_NAME	
00007963	A	Maria &	Walkus	
ADDRESS		CITY_1		
40610 Ithaca Lane		Magnolia		
LOC_INFO		MTR_INFO		
0		Left		
AUDIT ONLY	METER SIZE	LAST_READ	FINAL READ	
No	3/4	891000	929	
WATER OFF?	SER_NUM	OLD_MTRNUM.		
No	9475673	9475673		
DATE INSTALLED	NEW METER NUMBER	RADIO NUMBER		
6-28	BL 5/8X3/4 LF/BR USG 3GDS PL	 12232433		
	3 227	5 High 100.2 5 Low 99.4		
	05/06/2016	SN - 10062162		
NOTES		ADDITIONAL SERVICES		
Reduced from 1" to 5/8x3/4		INSTALLER Mike R		
1420				

ACCT_NUM

00002905

STATUS_1

A

FIR_NAME

Jill

RFP # 132 #
133 136
LAST_NAME

Westbrook

ADDRESS

9426 Deer Path Lane

CITY_1

Magnolia

LOC_INFO

corner right of fence

MTR_INFO

Right

AUDIT ONLY

METER_SIZE

1

LAST_READ

7291000

FINAL READ

NO

7379

WATER OFF?

SER_NUM

56682906

OLD_MTRNUM

56682906

NO

NEW METER NUMBER

RADIO NUMBER

DATE INSTALLED

7/25/16

BL 1' LF/BR USG 3GDS PL-SG

27

High 100.6
Inter 100.1
Low 98.8

1L

224

05/03/2016

SN - 8898775



12238074

ADDITIONAL SERVICES

BOX
RESET
(BRICKS
INSIDE)

Removed
brick.

Dohl

NOTES

INSTALLER

Bobby / Eddy

923

1/18/2017

cd93e0ce-ded2-4551-90d9-14ea7b859d2a.jpg (1440x2560)

RFP #150
#151
#154

469 28 18 162 QUAD_BKD18_0160

ACCT_NUM	STATUS_1	FIR_NAME	LAST_NAME
00005631	A	Fang	

ADDRESS	CITY_1
29827 Edgewater Drive	Magnolia

LOC_INFO	MTR_INFO
0	Left

AUDIT ONLY	METER_SIZE	LAST_READ	FINAL READ
no	1	3984000	3995

WATER OFF?	SER_NUM	OLD_MTRNUM
no	4363154	4363154

DATE INSTALLED	NEW METER NUMBER	RADIO NUMBER
7/15/16		

BL 1" LF/BR USG 3GDS PL-SG

23 High 100.5
Enter 100.1
Low 97.9

1 224
05/03/2016 SN - 0095093

12239346

ADDITIONAL SERVICES

NOTES

INSTALLER

Bobby

469

Exhibit F



101 Regency Parkway
Mansfield, Texas 76063
Toll Free: 800-765-6518
Local: 817-842-8000
Fax: 817-842-8100

September 7, 2016

Explanation of Test Bench Accuracy and Water Meter Testing

Master Meter, Inc. uses state-of-the-art gravimetric test benches to test and record the accuracy of every water meter produced in the Mansfield facility. The meters are approved for service using the requirements of the applicable American Water Works Association (AWWA) standard and the AWWA Manual of Water Supply Practices (M6) manual. The AWWA C708 Cold-Water Meters – Multijet Type standard covers the Master Meter BLMJ line of water meters.

The process and tools used to maintain calibration of the test benches is traceable to National Institute of Standard and Technology (NIST). The following process is used:

1. Automatic test results are periodically compared to manual test results. Manual tests compare the registration change on a meter's dial face to the measured weight of water in a capture tank.
2. The scales measuring the weight of the captured water are routinely checked and calibrated with test weights.
3. The test weights are certified by a third party calibration service provider to be traceable to NIST standards.

Walt Vetter
Chief Engineer
Master Meter, Inc.
101 Regency Parkway
Mansfield, TX. 76063
Direct Line: 817-842-8165
Cell: 817-718-7355
email: wvetter@mastermeter.com

Exhibit G



Southern Flowmeter, Inc.

Fast-Reliable-Accurate

4026 Colgate, Houston, TX 77087

Office (281) 997-5544

Fax (281) 946-5045

Meter Inspection / Test Report

Owner	Lake Windcrest
Customer	
Address	10118 Club House
Brand	Master Meter
Size/Model	1 BLMJ
Serial	8898779
Service Type	Residential

Test Data

Test Date	Wednesday, October 11, 2017
Register 1	424338
Register 2	0
Metered Total	424338

Test Condition	Rate (GPM)	Known Standard (Gallons)	Metered (Gallons)	Percent Accuracy
Low Flow	0.75	10	10	100.0%
Medium Flow	2	30	29.9	99.7%
High Flow	35	150	148.7	99.1%
Total Known Gallons	190			
Total Metered Gallons	188.6			
		Weighted Accuracy	99.6%	

Notes

--



Southern Flowmeter, Inc.

Fast-Reliable-Accurate

4026 Colgate, Houston, TX 77087

Office (281) 997-5544

Fax (281) 946-5045

Meter Inspection / Test Report

Owner	Lake Windcrest
Customer	
Address	11018 Lake Windcrest
Brand	Master Meter
Size/Model	1 BL
Serial	8898875
Service Type	Residential

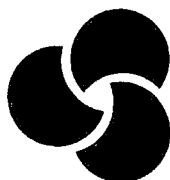
Test Data

Test Date	Thursday, October 27, 2016
Register 1	83700
Register 2	0
Metered Total	83700

Test Condition	Rate (GPM)	Known Standard (Gallons)	Metered (Gallons)	Percent Accuracy
Low Flow	0.75	10	9.9	99.0%
Medium Flow	4	40	39.6	99.0%
High Flow	40	150	150.4	100.3%
Total Known Gallons	200			
Total Metered Gallons	199.9			
		Weighted Accuracy	99.2%	

Notes

Meter accuracy acceptable, does not exceed AWWA threshold of 101.5%



Southern Flowmeter, Inc.

Fast-Reliable-Accurate

4026 Colgate, Houston, TX 77087

Office (281) 997-5544

Fax (281) 946-5045

Meter Inspection / Test Report

Owner	Lake Windcrest
Customer	
Address	9426 Deer Path Ln
Brand	Master Meter
Size/Model	1 BL
Serial	8898775
Service Type	Residential

Test Data

Test Date	Thursday, October 27, 2016
Register 1	77927.4
Register 2	0
Metered Total	77927.4

Test Condition	Rate (GPM)	Known Standard (Gallons)	Metered (Gallons)	Percent Accuracy
Low Flow	0.75	10	10	100.0%
Medium Flow	4	40	39.7	99.3%
High Flow	40	150	146.3	97.5%
Total Known Gallons	200			
Total Metered Gallons	196			
		Weighted Accuracy	99.1%	

Notes

Meter accuracy acceptable, does not exceed AWWA threshold of 101.5%



Southern Flowmeter, Inc.

Fast-Reliable-Accurate

4026 Colgate, Houston, TX 77087

Office (281) 997-5544

Fax (281) 946-5045

Meter Inspection / Test Report

Owner	Quadvest
Customer	Same as Owner
Address	9335 Clubhouse
Brand	Master Meter
Size/Model	1 BL
Serial	8898752
Service Type	Residential

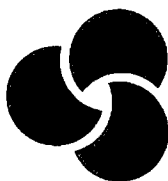
Test Data

Test Date	Wednesday, October 04, 2017
Register 1	386752.6
Register 2	0
Metered Total	386752.6

Test Condition	Rate (GPM)	Known Standard (Gallons)	Metered (Gallons)	Percent Accuracy
Low Flow	0.75	11	0.2	1.8%
Medium Flow	3	30	27.7	92.3%
High Flow	35	156	142.9	91.6%
Total Known Gallons	197			
Total Metered Gallons	170.8			
		Weighted Accuracy	75.0%	

Notes

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Southern Flowmeter, Inc.

Fast-Reliable-Accurate

4026 Colgate, Houston, TX 77087

Office (281) 997-5544

Fax (281) 946-5045

Meter Inspection / Test Report

Owner	Quadvest
Customer	Same as Owner
Address	10314 Serenity Sound
Brand	Master Meter
Size/Model	1 BL
Serial	8898796
Service Type	Residential

Test Data

Test Date	Wednesday, October 04, 2017
Register 1	272054.2
Register 2	0
Metered Total	272054.2

Test Condition	Rate (GPM)	Known Standard (Gallons)	Metered (Gallons)	Percent Accuracy
Low Flow	0.75	11	10.4	94.5%
Medium Flow	3	30	29.7	99.0%
High Flow	35	156	140.4	90.0%
Total Known Gallons	197			
Total Metered Gallons	180.5			
		Weighted Accuracy	96.5%	

Notes

--



Southern Flowmeter, Inc.

Fast-Reliable-Accurate

4026 Colgate, Houston, TX 77087

Office (281) 997-5544

Fax (281) 946-5045

Meter Inspection / Test Report

Owner	Quadvest
Customer	Same as Owner
Address	29827 Edgewater
Brand	Master Meter
Size/Model	1 BL
Serial	8898893
Service Type	Residential

Test Data

Test Date	Wednesday, October 04, 2017
Register 1	117282.2
Register 2	0
Metered Total	117282.2

Test Condition	Rate (GPM)	Known Standard (Gallons)	Metered (Gallons)	Percent Accuracy
Low Flow	0.75	11	10.8	98.2%
Medium Flow	3	30	29.5	98.3%
High Flow	35	156	145.9	93.5%
Total Known Gallons	197			
Total Metered Gallons	186.2			
		Weighted Accuracy	97.4%	

Notes

--



Southern Flowmeter, Inc.

Fast-Reliable-Accurate

4026 Colgate, Houston, TX 77087

Office (281) 997-5544

Fax (281) 946-5045

Meter Inspection / Test Report

Owner	Quadvest
Customer	Same as Owner
Address	40610 Ithaca
Brand	Master Meter
Size/Model	5/8 BL
Serial	10662182
Service Type	Residential

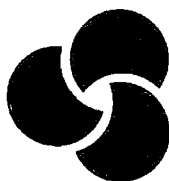
Test Data

Test Date	Wednesday, October 04, 2017
Register 1	326408.5
Register 2	0
Metered Total	326408.5

Test Condition	Rate (GPM)	Known Standard (Gallons)	Metered (Gallons)	Percent Accuracy
Low Flow	0.25	10	9.9	99.0%
Medium Flow	2	10.44	9.9	94.8%
High Flow	15	100.22	101	100.8%
Total Known Gallons	120.66			
Total Metered Gallons	120.8		Weighted Accuracy	96.7%

Notes

--



Southern Flowmeter, Inc.

Fast-Reliable-Accurate

4026 Colgate, Houston, TX 77087

Office (281) 997-5544

Fax (281) 946-5045

Meter Inspection / Test Report

Owner	Quadvest
Customer	Same as Owner
Address	10507 Crystal Cove
Brand	Master Meter
Size/Model	5/8 BL
Serial	10668816
Service Type	Residential

Test Data

Test Date	Wednesday, October 04, 2017
Register 1	500095
Register 2	0
Metered Total	500095

Test Condition	Rate (GPM)	Known Standard (Gallons)	Metered (Gallons)	Percent Accuracy
----------------	------------	-----------------------------	----------------------	---------------------

Low Flow	0.25	10	9.9	99.0%
Medium Flow	2	10.44	10.5	100.6%
High Flow	15	100.22	100.9	100.7%
Total Known Gallons	120.66			
Total Metered Gallons	121.3			
		Weighted Accuracy	100.3%	

Notes

--



Southern Flowmeter, Inc.

Fast-Reliable-Accurate

4026 Colgate, Houston, TX 77087

Office (281) 997-5544

Fax (281) 946-5045

Meter Inspection / Test Report

Owner	Quadvest
Customer	Same as Owner
Address	12130 Clara
Brand	Master Meter
Size/Model	5/8 BL
Serial	10665933
Service Type	Residential

Test Data

Test Date	Wednesday, October 04, 2017
Register 1	95759.5
Register 2	0
Metered Total	95759.5

Test Condition	Rate (GPM)	Known Standard (Gallons)	Metered (Gallons)	Percent Accuracy
Low Flow	0.25	10	10	100.0%
Medium Flow	2	10.44	10.6	101.5%
High Flow	15	100.22	101	100.8%
Total Known Gallons	120.66			
Total Metered Gallons	121.6			
		Weighted Accuracy	101.1%	

Notes

--



Southern Flowmeter, Inc.

Fast-Reliable-Accurate

4026 Colgate, Houston, TX 77087

Office (281) 997-5544

Fax (281) 946-5045

Meter Inspection / Test Report

Owner	Quadvest
Customer	Same as Owner
Address	10411 Serenity Sound
Brand	Master Meter
Size/Model	5/8 BL
Serial	10669973
Service Type	Residential

Test Data

Test Date	Wednesday, October 04, 2017
Register 1	343854.7
Register 2	0
Metered Total	343854.7

Test Condition	Rate (GPM)	Known Standard (Gallons)	Metered (Gallons)	Percent Accuracy
Low Flow	0.25	10	10	100.0%
Medium Flow	2	10.4	10.4	100.0%
High Flow	15	100.04	100.7	100.7%
Total Known Gallons	120.44			
Total Metered Gallons	121.1			
		Weighted Accuracy	100.1%	

Notes

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Southern Flowmeter, Inc.

Fast-Reliable-Accurate

4026 Colgate, Houston, TX 77087

Office (281) 997-5544

Fax (281) 946-5045

Meter Inspection / Test Report

Owner	Quadvest
Customer	Same as Owner
Address	32643 Green Bend
Brand	Master Meter
Size/Model	5/8 BL
Serial	10669047
Service Type	Residential

Test Data

Test Date	Wednesday, October 04, 2017
Register 1	128209.2
Register 2	0
Metered Total	128209.2

Test Condition	Rate (GPM)	Known Standard (Gallons)	Metered (Gallons)	Percent Accuracy
Low Flow	0.25	10	10.1	101.0%
Medium Flow	2	10.4	10.5	101.0%
High Flow	15	100.04	100.9	100.9%
Total Known Gallons	120.44			
Total Metered Gallons	121.5			
		Weighted Accuracy	101.0%	

Notes

--



Southern Flowmeter, Inc.

Fast-Reliable-Accurate

4026 Colgate, Houston, TX 77087

Office (281) 997-5544

Fax (281) 946-5045

Meter Inspection / Test Report

Owner	Quadvest
Customer	Same as Owner
Address	10615 Serenity Sound
Brand	Master Meter
Size/Model	5/8 BL
Serial	10669873
Service Type	Residential

Test Data

Test Date	Wednesday, October 04, 2017
Register 1	269750.3
Register 2	0
Metered Total	269750.3

Test Condition	Rate (GPM)	Known Standard (Gallons)	Metered (Gallons)	Percent Accuracy
Low Flow	0.25	10	10.1	101.0%
Medium Flow	2	10.4	10.3	99.0%
High Flow	15	100.04	101	101.0%
Total Known Gallons	120.44			
Total Metered Gallons	121.4			
		Weighted Accuracy	99.8%	

Notes

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Exhibit H

**Accuracy Test Procedures
For Cold Water Meters**

Of

Southern Flowmeter, Inc.

Revised 12/2015

Accuracy Test Procedures for Cold Water Meters

Table of Contents

- 1. Scope and Application**
- 2. Summary of Method**
- 3. List of Meters**
- 4. Comments**
- 5. Procedure**
- 6. Certified meter guidelines**
- 7. References**

1 Scope and Application

- 1.1 The following test methods are applicable to various models of cold water meters, as listed, in order to establish an accuracy profile. The main goal of testing is to evaluate the performance of the meter, and recommend repairs or replacement when beneficial.**

2 Summary of Method

- 2.1 Meter accuracy will primarily be established by comparison to at least one other meter or standard, certified within no more than 12 months or kept in a stable unused condition since the date of certification.**
- 2.2 Meters will preferably be tested in batches, to allow for cross comparison to each other in addition to certified meter**

3 List of Meters

- 3.1 This method applies to the following cold water meters; Positive Displacement, Turbine (class I and II), Multi-Jet, Compound, Dual Body Compound, Fire Compound, Propeller and Mag Meter**

4 Comments

- 4.1 Accuracy tests can be performed in the field or in controlled environment.**
- 4.2 Tests performed in field may be influenced by outside variable such as faulty valves and insufficient pressure. These must be documented and mitigated as much as possible (ie. locate redundant valve).**
- 4.3 If repairs or defects are corrected at any time, changes must be noted in the report. This is true for corrections made after testing as well.**
- 4.4 Not all meter models allow for calibration changes.**

5 Procedure

- 5.1 Visually inspect meter to be tested (unknown meter) for defects, foreign materials or other noteworthy variances and record them on test form.**
- 5.2 Place meter on test bench and connect in line with test system.**
- 5.3 If meter is to be tested with other like meters simultaneously, repeat step 5.1 and 5.2 with all meters. Connect the meters in the batch all in series to allow for cross comparison. Do not test more than 10 meters in a single batch.**
- 5.4 Connect test system to a water source and pressure system if not already prepared.**
- 5.5 Verify that the outflow connection of the unknown meter batch is properly connected to allow for proper disposal of cycled or used water.**
- 5.6 Slowly open valve directly upstream of unknown meter batch to pressure up unknown meters, and allow to reach equilibrium with test system pressure (no more water movement)**
- 5.7 Remove air entrained in meters and test system by opening outflow valve. Open valve slowly until system reaches the GPM rate of the medium flow**

- test. Keep outflow valve open for 2 minutes or longer if necessary to remove entrained air.
- 5.8 Close outflow valve to suspend all flow through the test system and unknown meters.
 - 5.9 Inspect the test system and unknown meter batch for integrity issues. Leaks should be eliminated and if required pressure system down and begin again with step 5.4.
 - 5.10 With the entire system properly pressurized and in a state of no flow with pressure equilibrium, record the unknown meter information. Each meter should be recorded on a separate record. At a minimum this should include size, brand, model, serial number, test date and initial reading(s). Optional details include property address, unknown meter owner and additional details which may be pertinent.
 - 5.11 Once confident the test system is properly prepared for unknown meter testing, proceed with the following steps to obtain meter accuracy.
 - 5.11.1 Locate the correct test flow rates and quantities for low, medium (intermediate) and high flow tests. These can be found in AWWA manual M6 or in the Southern Flowmeter test chart "AWWA Requirements for New, Rebuilt and Repaired Cold Water Meters"
 - 5.11.2 Record the three flow rates, and test quantity, in each record for the unknown meter batch
 - 5.11.3 Record the meter information for the certified meter to be used as a standard on each record for the unknown meters. This information should include at a minimum the certified meter serial number and start reading. Check that the certification data is no more than 12 months prior to test date, or note that the meter has not been used since certification.
 - 5.11.4 Record other test apparatus being used. These items may not be certified but may assist following test method, including tanks with visual indicators, flow meters, scales and secondary meters
 - 5.11.5 Begin testing by opening outflow valve until flow rate matches the low flow test rate. The actual rate should nearly match the AWWA desired rate within 5% +/-.
 - 5.11.6 Allow flow through the system, until the certified meter begins to close in on the total test quantity.
 - 5.11.7 Close the outflow valve to suspend flow through the system, such that the certified meter runs the desired test quantity through (ie. 10 Gallons) within 5% +/-
 - 5.11.8 Record the final readings for each unknown meter and the certified meter, as well as any additional test apparatus used.
 - 5.11.9 Repeat steps 5.11.5 through 5.11.8 again for both medium flow and high flow rates.
 - 5.11.10 Calculate the accuracy of each unknown meter for each flow rate by using the equation:

$$\frac{\text{Unknown meter final read} - \text{Unknown meter initial read}}{\text{Calibrated meter final read} - \text{Calibrated meter initial read}} = \text{Meter Accuracy}$$

5.11.11 Evaluate accuracy values across each flow rate and each meter for the entire batch of unknown meters, to check for test integrity issues. Values over 102% should be especially concerning. If there is any doubt in the integrity of the test, start again with step 5.1.

5.12 The unknown meter batch should now be depressurized by closing the valve upstream of the unknown meters, and then opening the outflow valve.

5.13 The unknown meters can then be removed from the connection fittings and prepared for transportation back to the customer.

6 Certified meter guidelines

6.1 The certified meter will be used as a standard to obtain the accuracy of the customer provided meters.

6.2 At a minimum the meter should be certified within the previous 12 months, or have remained in an unused and stable condition since the date of previous certification

6.3 The meter must be certified to monitor flow accurately at the desired flow rates for the test. The easiest manner to ensure this possibility is to match the size and model of the meters to be tested. If this is not possible, refer to the certified meter certificate and compare the flow rates on the certificate to the desired test flow range.

6.4 Whenever possible use multiple certified meters and record the results of every certified meter along with the unknown meter results, on each individual record.

6.5 It is acceptable to augment certified meters with uncertified instruments, to assist in flow rate control and/or quantity control. These cannot be used as standards for the purpose of obtaining accuracy statements.

7 References

7.1 This test method was developed for Southern Flowmeter, Inc. and is based on guidelines set forth in AWWA Manual M6, Fifth addition

SIEMENS MAGFLO® Verification Certificate

Customer:

Name Southern Flowmeter
 Address 4026 Colgate
Houston, TX 77087
 Phone (281) 997-5544
 Email service@southernmeter.com

MAGFLO® Identification:

TAG No./Name 0
 Sensor Code No. 7ME652
 Sensor Serial No. 177502U299
 Transmitter Code No. 7ME691
 Transmitter Serial No. 728521N239
 Location Big Trailer

Results:

Verification file name or No. SFI T1 2
 Transmitter Passed
 Sensor Insulation Passed
 Magnetic Circuit Passed

Velocity	Current Output			Frequency Output		
Theoretical	Theoretical	Actual	Deviation	Theoretical	Actual	Deviation
0.5m/s	4.800mA	4.804mA	0.49%	0.500kHz	0.500kHz	-0.05%
1.0m/s	5.600mA	5.606mA	0.35%	1.000kHz	1.001kHz	0.11%
3.0m/s	8.800mA	8.802mA	0.04%	3.000kHz	3.000kHz	0.00%

Current Output 4-20mA

Frequency Output 0-10kHz

Transmitter Settings:

Basic Qmax. 200.000 US G /min
 Flow Direction Negative
 Low flow Cut-off 0.50%
 Empty Pipe ON
Output Current Output OFF
 Time Constant N/A
 Relay Output Error Level
 Digital Output Pulse
 Frequency Range N/A
 Time Constant N/A
 Volume/pulse 0.99999953 US G/p
 Pulse width 0.066 sec.
 Pulse polarity Positiv
 Totalizer 1 value before test 501.92220032 US G
 Totalizer 1 value after test 505.94055047 US G
 Totalizer 2 value before test 2.83405099 US G
 Totalizer 2 value after test 3.99788474 US G
 Operating time in days 51

Sensor Details:

Size DN 50 2 IN
 Cal. Factor 1.7439146
 Correction Factor 1.00999999
 Excitation Freq. 15.0Hz

Verifactor Details (083F5061)

Serial No. N1B5020003
 Device No. 220064
 Software Version 1.40
 PC-Software Version 5.01
 Cal. date 2015.01.08
 ReCal. date 2016.01.08

Comments

These tests verify that the flowmeter is functioning within 2% deviation of the original test parameters.

Verification is traceable to National and International Standards.

Date and signature

2015.12.08

2015.12.30

20:50:34

-06'00'

J.R. Goodnight

Exhibit I

2016	Temperature			Dew Point		Humidity				Speed			Pressure			Precip Accu m. Sum
Jul	High	Avg	Low	High	Avg	Low	High	Avg	Low	High	Avg	Gust	High	Avg	Low	
1	93.4 °F	83.9	°F	79 °F	75.5 °F	73 °F	98%	78%	54%	6 mph	1 mph	12 mph	30.04 in	30 in	29.95 in	0
2	94.4 F	84.7	F	79 °F	75.4 °F	72 °F	97%	76%	52%	9 mph	3 mph	17 mph	30.05 in	29.99 in	29.93 in	0
3	93.8 F	86.4	°F	79 °F	76.7 °F	73 °F	93%	75%	52%	17 mph	7 mph	19 mph	30.02 in	29.95 in	29.89 in	0
4	93.5 °F	87.2	°F	79 °F	77 °F	74 °F	90%	74%	56%	14 mph	6 mph	21 mph	30.03 in	29.98 in	29.92 in	0
5	94 °F	87.5	°F	79 °F	77.6 °F	75 °F	91%	76%	56%	12 mph	6 mph	17 mph	30.03 in	29.99 in	29.95 in	0
6	92.9 °F	86.8	°F	79 °F	76.7 °F	73 °F	92%	75%	54%	13 mph	6 mph	19 mph	30.05 in	29.99 in	29.94 in	0
7	94.3 °F	87.1	F	80 °F	77.1 °F	74 °F	94%	76%	53%	14 mph	6 mph	20 mph	30 in	29.97 in	29.93 in	0
8	95.7 F	86.8	°F	80 °F	76.3 °F	73 °F	95%	74%	49%	13 mph	5 mph	18 mph	30.07 in	30.01 in	29.95 in	0
9	95.4 F	85.4	°F	79 °F	76.4 °F	74 °F	97%	76%	51%	9 mph	3 mph	15 mph	30.07 in	30.01 in	29.94 in	0
10	92 °F	85.3	°F	80 °F	75.7 °F	69 °F	94%	75%	48%	12 mph	5 mph	19 mph	30.03 in	29.96 in	29.89 in	0
11	94 °F	86.8	°F	78 °F	75.2 °F	68 °F	92%	72%	45%	13 mph	7 mph	21 mph	29.98 in	29.94 in	29.91 in	0
12	94.4 °F	86.4	°F	78 °F	75.8 °F	71 °F	94%	73%	48%	14 mph	6 mph	18 mph	30.01 in	29.97 in	29.93 in	0
13	94.6 °F	87.3	°F	80 °F	77 °F	73 °F	94%	74%	52%	12 mph	6 mph	18 mph	30.07 in	30.01 in	29.96 in	0
14	95.7 °F	86.9	°F	80 °F	76.2 °F	72 °F	95%	74%	47%	12 mph	4 mph	19 mph	30.07 in	30.01 in	29.94 in	0
15	97.1 F	86.8	°F	79 °F	75 °F	70 °F	96%	71%	42%	13 mph	3 mph	17 mph	30.06 in	29.99 in	29.91 in	0
16	95.2 °F	84.8	°F	79 °F	74.1 °F	69 °F	97%	72%	43%	9 mph	2 mph	13 mph	30.05 in	29.99 in	29.94 in	0
17	94.1 °F	83.7	°F	78 °F	74.4 °F	72 °F	96%	78%	49%	10 mph	2 mph	21 mph	30.09 in	30.06 in	30.02 in	0
18	95.2 °F	85.1	°F	79 °F	76 °F	74 °F	97%	80%	54%	9 mph	1 mph	21 mph	30.16 in	30.12 in	30.08 in	0
19	92.4 °F	83.9	°F	80 °F	76.3 °F	74 °F	97%	82%	57%	15 mph	2 mph	18 mph	30.2 in	30.14 in	30.07 in	0
20	95 °F	84.6	°F	80 °F	75.3 °F	72 °F	98%	77%	49%	6 mph	1 mph	12 mph	30.19 in	30.13 in	30.07 in	0
21	97 °F	85.8	F	78 °F	73.1 °F	67 °F	97%	69%	40%	8 mph	1 mph	12 mph	30.16 in	30.09 in	30.02 in	0
22	96.7 °F	85.6	°F	79 °F	74.9 °F	71 °F	96%	71%	45%	8 mph	2 mph	12 mph	30.1 in	30.03 in	29.95 in	0
23	97.5 °F	87.1	F	78 °F	75.6 °F	71 °F	94%	71%	44%	10 mph	2 mph	18 mph	30.01 in	29.94 in	29.86 in	0

24	98.6 °F	87.9	*F	79 °F	76.2 °F	72 °F	95%	72%	44%	9 mph	2 mph	15 mph	29.98 in	29.92 in	29.86 in	0	
25	95.1 °F	83.9	*F	80 °F	75.7 °F	71 °F	98%	81%	49%	12 mph	2 mph	18 mph	29.98 in	29.92 in	29.87 in	1.84	in
26	89.4 °F	81.3	*F	78 °F	75.5 °F	73 °F	98%	89%	87%	12 mph	2 mph	16 mph	29.96 in	29.92 in	29.87 in	0.01	in
27	82.5 °F	78.7	*F	80 °F	75.9 °F	74 °F	97%	95%	84%	6 mph	0 mph	11 mph	30.03 in	29.97 in	29.91 in	0.57	in
28	86.3 °F	80.8	*F	81 °F	76 °F	73 °F	98%	94%	79%	27 mph	1 mph	28 mph	30.04 in	30 in	29.96 in	0.29	in
29	94.3 °F	84.6	*F	80 °F	76 °F	74 °F	98%	81%	53%	7 mph	1 mph	9 mph	30.06 in	29.99 in	29.93 in	0.01	in
30	96.2 °F	85.7	*F	79 °F	75.9 °F	73 °F	97%	78%	48%	12 mph	2 mph	14 mph	30.03 in	29.98 in	29.93 in	0	
31	93.4 °F	85.3	*F	79 °F	77.1 °F	74 °F	96%	80%	60%	10 mph	2 mph	12 mph	30.04 in	30 in	29.96 in	0	
																	85.2 2.77
2016	Temper ature			Dew Point		Humidit y				Speed			Pressur e				Precip - Accu m. Sum
Aug	High	Avg		High	Avg	Low	High	Avg	Low	High	Avg	Gust	High	Avg	Low		
1	96.3 °F	85.4	*F	79 °F	75.3 °F	69 °F	97%	74%	42%	9 mph	2 mph	16 mph	30.09 in	30.03 in	29.97 in	0	
2	97.1 °F	86.5	*F	79 °F	76.8 °F	74 °F	97%	76%	49%	7 mph	1 mph	14 mph	30.1 in	30.03 in	29.97 in	0	
3	96.7 °F	86.2	*F	79 °F	76.4 °F	72 °F	97%	74%	47%	7 mph	0 mph	9 mph	30.06 in	29.99 in	29.91 in	0	
4	96.2 °F	85.9	*F	79 °F	76.2 °F	73 °F	97%	74%	50%	9 mph	2 mph	13 mph	30 in	29.94 in	29.88 in	0	
5	97.1 °F	86.3	*F	79 °F	76.8 °F	74 °F	97%	77%	51%	8 mph	2 mph	12 mph	29.99 in	29.94 in	29.89 in	0	
6	97 °F	86.8	*F	79 °F	75 °F	66 °F	96%	72%	37%	10 mph	2 mph	14 mph	30 in	29.94 in	29.89 in	0	
7	98 °F	88.1	*F	79 °F	75.8 °F	70 °F	96%	72%	41%	8 mph	2 mph	12 mph	29.97 in	29.9 in	29.83 in	0	
8	96.8 °F	86.9	*F	79 °F	75.5 °F	70 °F	96%	71%	44%	7 mph	2 mph	12 mph	29.94 in	29.87 in	29.8 in	0	
9	98.8 °F	87.4	*F	80 °F	76.7 °F	73 °F	97%	73%	44%	9 mph	2 mph	13 mph	29.95 in	29.89 in	29.83 in	0	
10	98.3 °F	88.6	*F	80 °F	76.9 °F	72 °F	94%	71%	44%	8 mph	2 mph	12 mph	30.02 in	29.95 in	29.89 in	0	
11	99.6 °F	89.7	*F	82 °F	78 °F	74 °F	95%	74%	46%	11 mph	4 mph	16 mph	30 in	29.92 in	29.84 in	0	
12	97.6 °F	88.3	*F	80 °F	76.5 °F	69 °F	95%	73%	40%	14 mph	5 mph	15 mph	29.9 in	29.81 in	29.71 in	0	
13	94 °F	84.2	*F	79 °F	76.4 °F	74 °F	98%	83%	53%	10 mph	2 mph	15 mph	29.86 in	29.78 in	29.7 in	3.45	in
14	84.7 °F	78.1	*F	79 °F	74.3 °F	71 °F	98%	96%	80%	11 mph	2 mph	22 mph	29.99 in	29.92 in	29.84 in	2.65	in
15	85.2 °F	78.6	*F	79 °F	74.7 °F	72 °F	99%	94%	78%	9 mph	1 mph	13 mph	30.03 in	29.89 in	29.94 in	0.84	in

16	80.4 F	77.4	*F	77 *F	75.3 *F	73 *F	98%	95%	89%	7 mph	1 mph	14 mph	30.08 in	30.03 in	29.99 in	0.49	in	
17	82.8 *F	77.9	*F	78 *F	75 *F	73 *F	98%	94%	81%	12 mph	2 mph	19 mph	30.11 in	30.08 in	30.05 in	0.46	in	
18	87.2 *F	80.1	*F	80 *F	74.9 *F	72 *F	99%	95%	77%	11 mph	0 mph	18 mph	30.09 in	30.04 in	29.99 in	0.76	in	
19	89.5 *F	81.8	F	79 *F	76.7 *F	73 *F	99%	88%	64%	10 mph	2 mph	13 mph	30.03 in	29.96 in	29.89 in	0.08	in	
20	89.1 *F	81.9	F	81 *F	76.6 *F	74 *F	97%	88%	71%	8 mph	2 mph	13 mph	29.93 in	29.88 in	29.82 in	0.12	in	
21	85.5 *F	78.6	*F	78 *F	75.9 *F	70 *F	98%	92%	75%	15 mph	1 mph	26 mph	30.02 in	29.96 in	29.9 in	0.54	in	
22	83.2 *F	78.7	*F	79 *F	76.2 *F	72 *F	98%	93%	80%	7 mph	1 mph	9 mph	30.13 in	30.08 in	30.02 in	0.3	in	
23	93.7 F	84.6	*F	80 *F	78.6 *F	73 *F	99%	82%	52%	10 mph	3 mph	16 mph	30.17 in	30.12 in	30.07 in	0		
24	93 *F	84.2	F	79 *F	76.4 *F	74 *F	98%	82%	56%	9 mph	2 mph	12 mph	30.14 in	30.09 in	30.04 in	0		
25	90.3 *F	82.3	F	79 *F	76 *F	73 *F	98%	87%	61%	4 mph	0 mph	6 mph	30.09 in	30.03 in	29.98 in	0		
26	89.9 F	81.8	*F	77 *F	73.8 *F	72 *F	97%	89%	62%	7 mph	0 mph	15 mph	30.06 in	30.01 in	29.98 in	0.26	in	
27	90.4 *F	81.9	*F	78 *F	74.3 *F	71 *F	98%	87%	66%	8 mph	0 mph	17 mph	30.02 in	29.96 in	29.9 in	0		
28	88.3 *F	80.7	F	78 *F	74.2 *F	72 *F	98%	90%	72%	5 mph	0 mph	11 mph	30.02 in	29.97 in	29.91 in	1.17	in	
29	86.3 *F	79.7	*F	78 *F	74.5 *F	72 *F	98%	90%	72%	10 mph	1 mph	15 mph	30 in	29.97 in	29.93 in	0.04	in	
30	93.2 *F	82.9	F	79 *F	74.7 *F	71 *F	97%	82%	56%	8 mph	1 mph	10 mph	30 in	29.94 in	29.88 in	0		
31	94 *F	84.3	*F	80 *F	76.8 *F	73 *F	97%	81%	54%	6 mph	0 mph	13 mph	29.95 in	29.9 in	29.85 in	0		
																	83.41	11.15

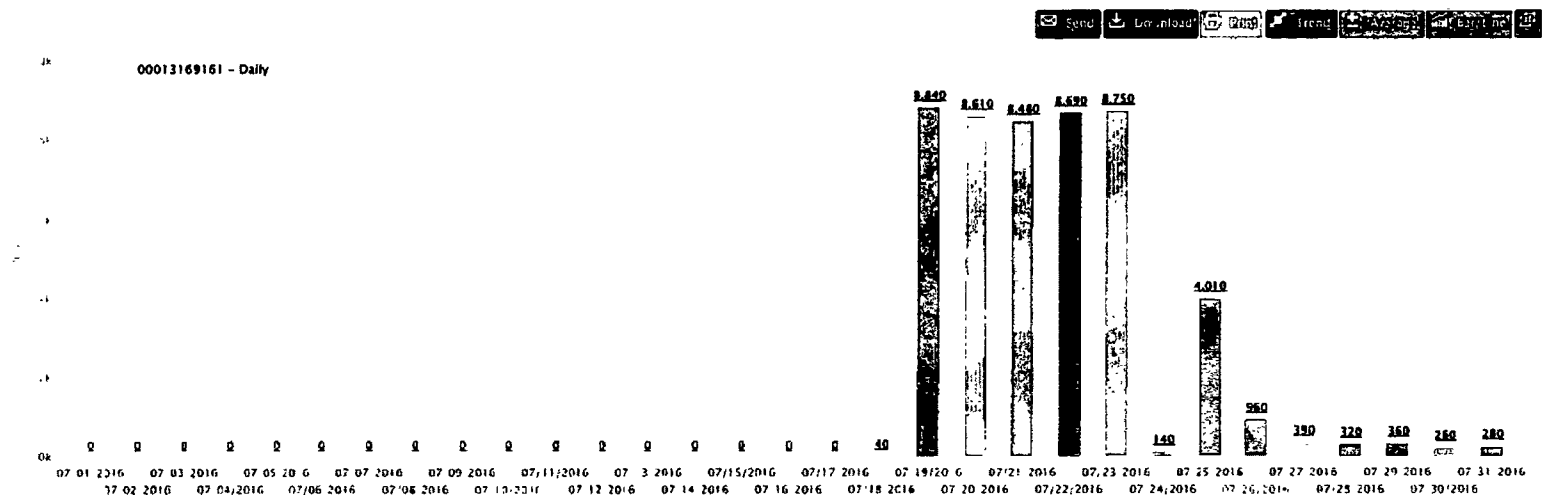
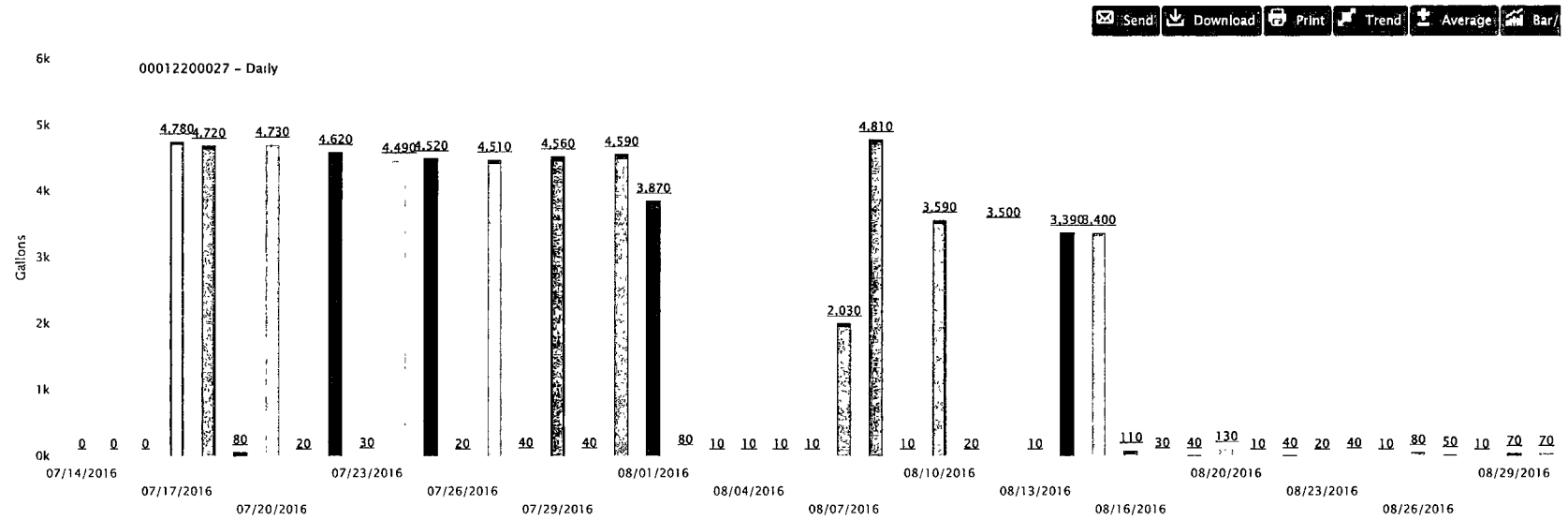


Exhibit J

10/24/2016

Harmony --> Chart Dashboard

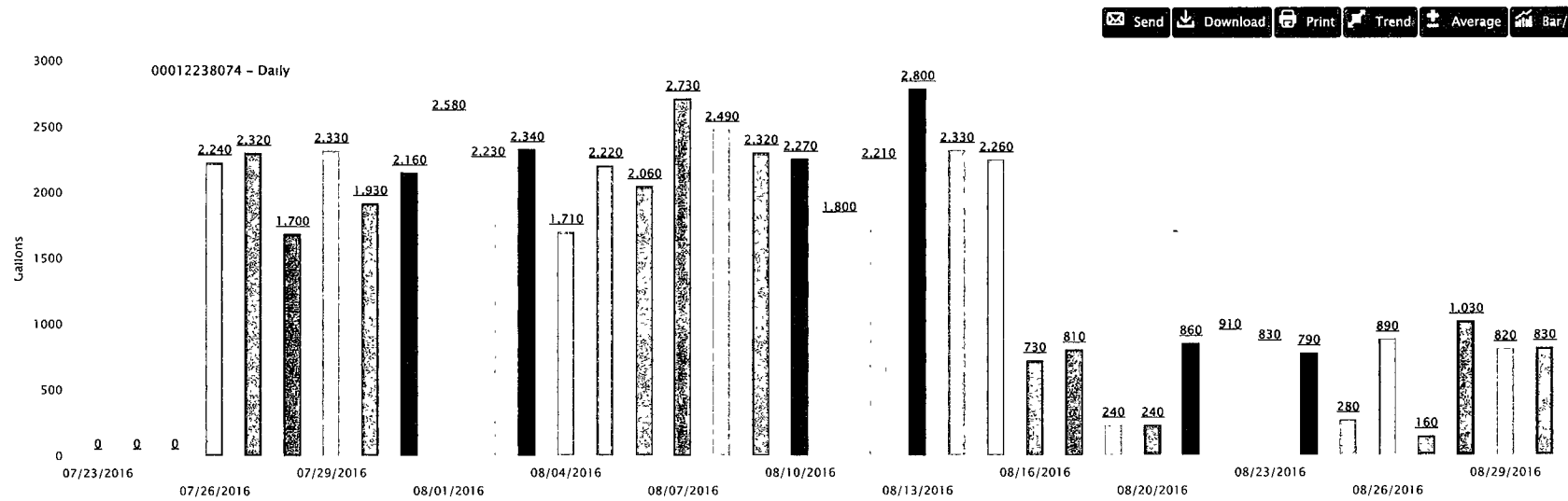
Consumer Name:Gail & Charlie Acebo
Address: 10614 Serenity Sound



10/24/2016

Harmony --> Chart Dashboard

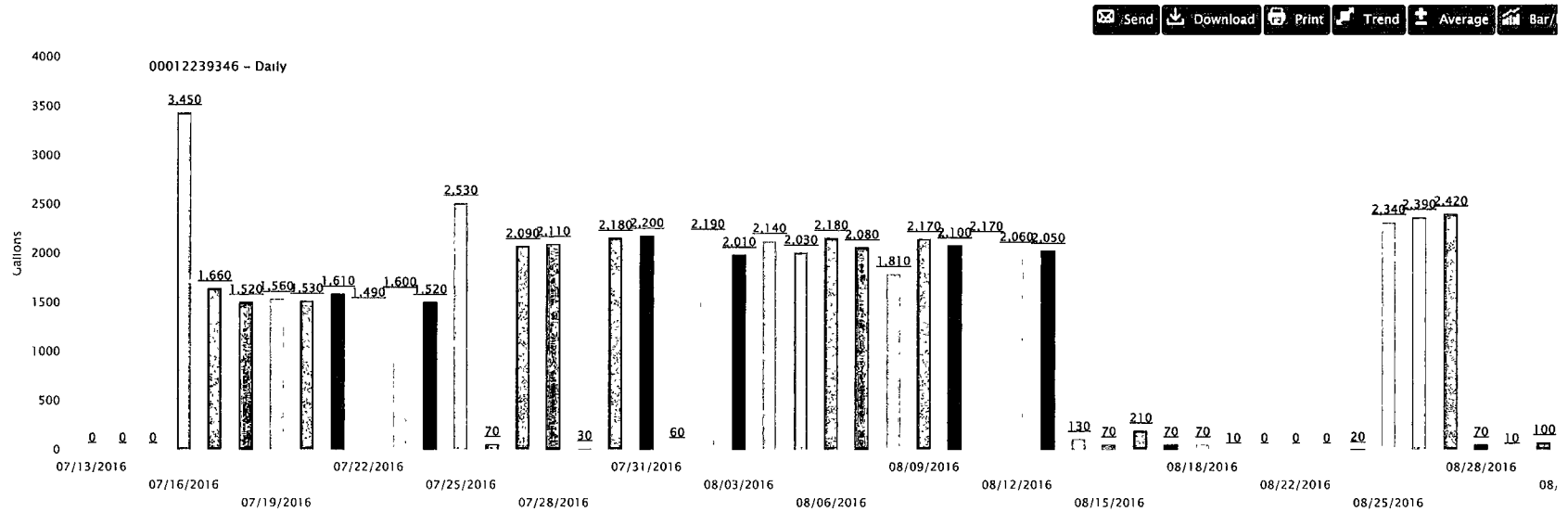
Consumer Name: Westbrook Jill
Address: 9426 Deer Path Lane



10/24/2016

Harmony --> Chart Dashboard

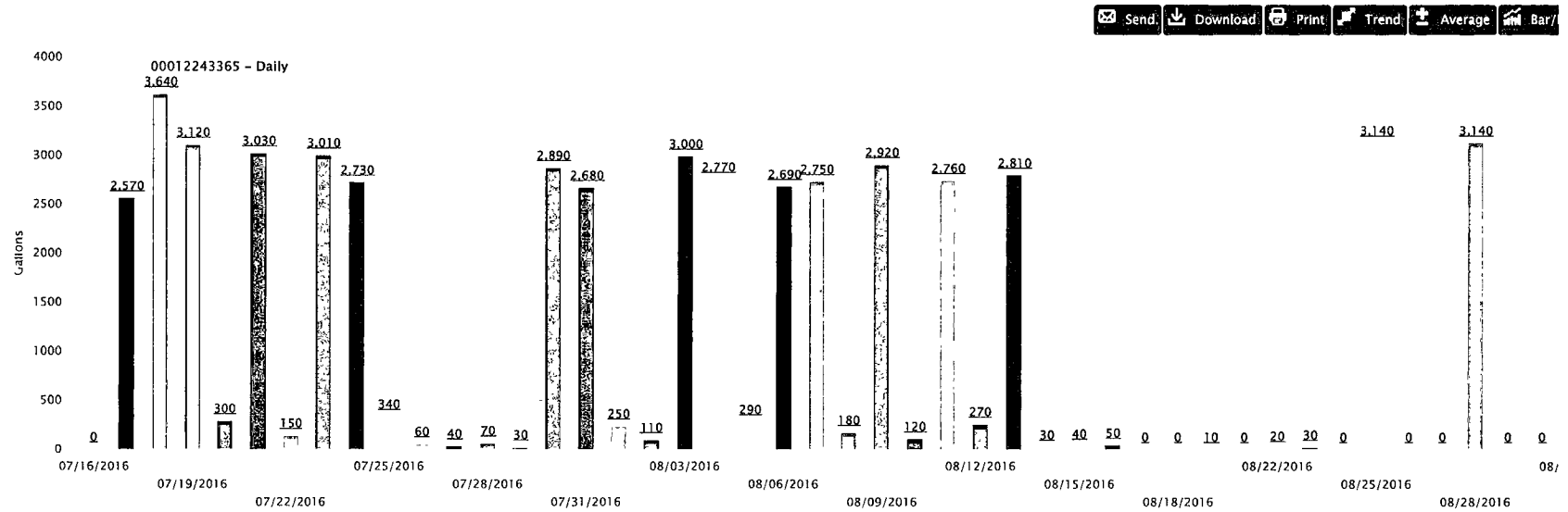
Consumer Name:Yiu Fang
Address: 29827 Edgewater Drive



10/20/2016

Harmony --> Chart Dashboard

Consumer Name:Hansen Randolph
Address: 10314 Serenity Sound

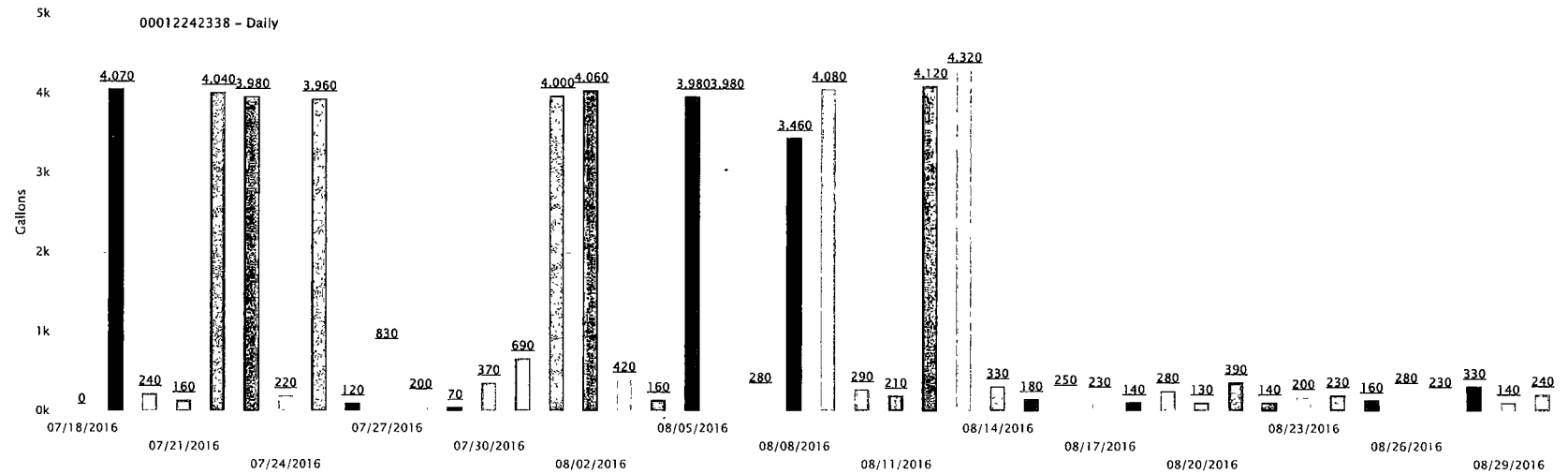


10/20/2016

Harmony --> Chart Dashboard

Consumer Name:Floyd Gladys
Address: 10118 Clubhouse Cir

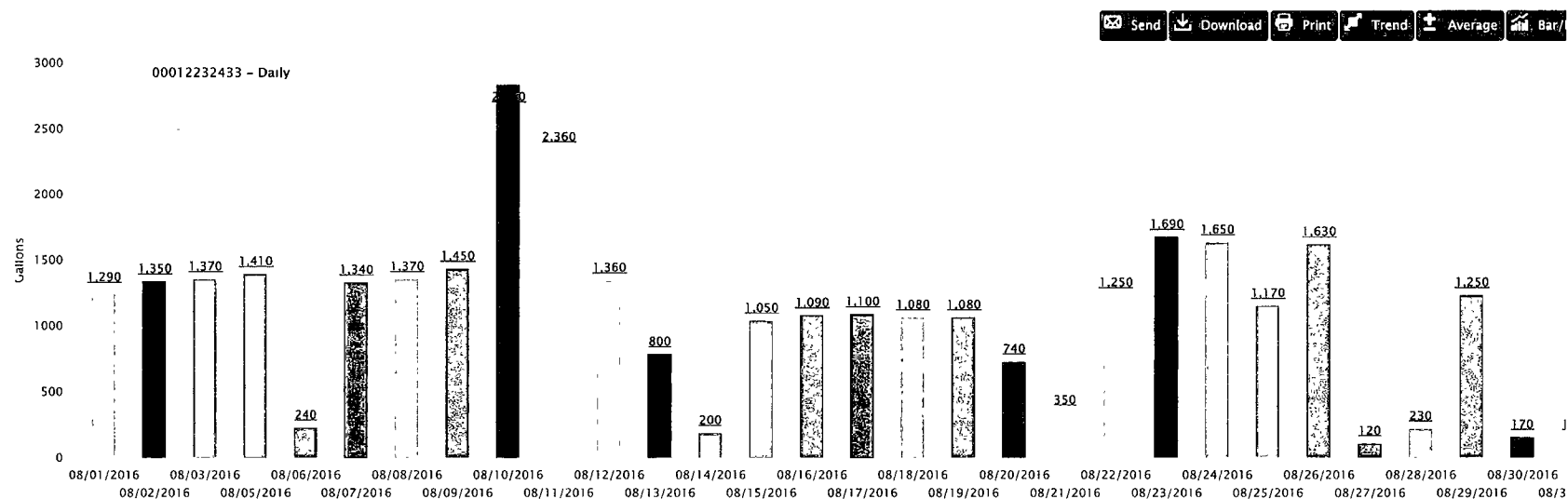
Send Download Print Trend Average Bar



10/20/2016

Harmony --> Chart Dashboard

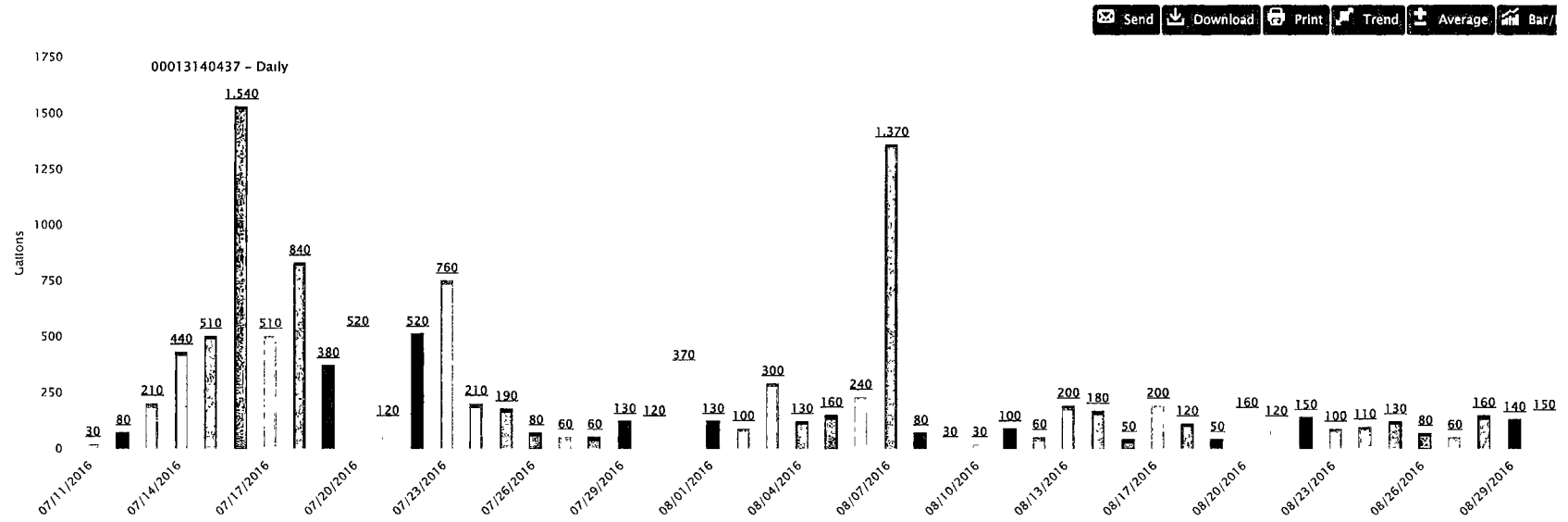
Consumer Name: Maria & Allyn Watkins
Address: 40610 Ithaca Lane



10/20/2016

Harmony --> Chart Dashboard

Consumer Name: Sanders Ashely
Address: 12130 Clara Ln



9/14/2016

Harmony --> Chart Dashboard

Consumer Name:Barrett Brian
Address: 11018 Lake Windcrest Blvd

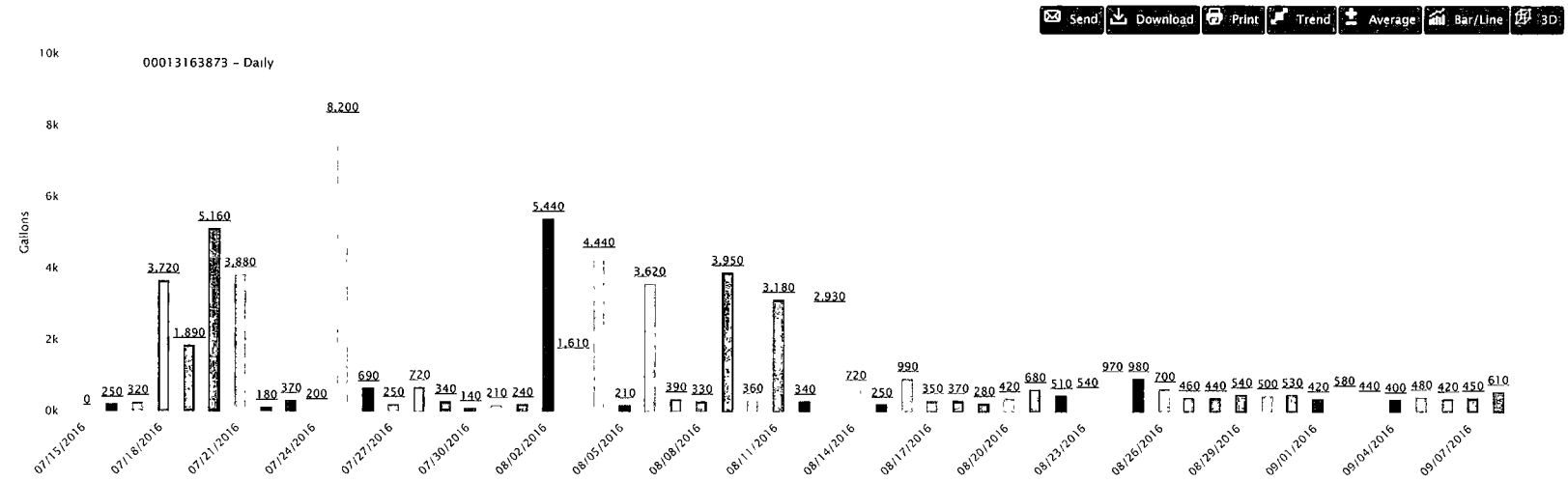


Exhibit K



Control Number: 45548



Item Number: 4

Addendum StartPage: 0

Donna L. Nelson
Chairman

Kenneth W. Anderson, Jr.
Commissioner

Brandy Marty Marquez
Commissioner

Brian H. Lloyd
Executive Director



Greg Abbott
Governor

RECEIVED

2016 FEB 24 PM 2:33

Public Utility Commission of Texas

TO: Simon P. Sequeira
Quadvest, L.P.
26926 FM 2978
Magnolia, TX 77354

Commission Staff – Water Utility Regulation Division
Commission Staff – Legal Division

RE: Tariff Control No. 45548 – *Application of Quadvest, L.P. to Implement a Pass-Through Rate Change*

NOTICE OF APPROVAL

On January 26, 2016, Quadvest, L.P. (Quadvest) filed its annual true-up report for its district pass-through gallonage fee and an application to implement a pass-through rate increase for fees imposed on the utility by several water districts, with the most significant increase coming from the San Jacinto River Authority. The rate increase was effective January 28, 2016.

On February 17, 2016, Public Utility Commission of Texas (Commission) Staff recommended that the application and notice be deemed sufficient and further that application be approved, as specified in the pleading and attached memorandum of Andrew Novak of the Commission's Water Utility Regulation Division. Quadvest mailed notice to affected customers on January 21, 2016, providing the effective date of the increase, the present calculation of customer billings, new calculation of customer billings, changes in charges to the utility for purchased water or water use fees, and the necessary required language by 16 Tex. Admin. Code § 24.21(h)(4)(b). Additionally, Quadvest provided the Commission a copy for the notice sent to customers, proof that the cost of purchased water has changed by the stated amount, and the calculation of the new rate. Commission Staff stated that Quadvest has met all of the requirements set out by the Commission's substantive rules to implement the pass-through fee increase to affected customers. New tariff pages for Quadvest that reflect the rate increase were attached to Commission Staff's recommendation.



Printed on recycled paper

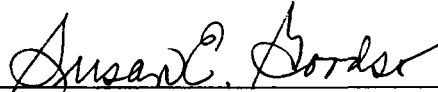
An Equal Opportunity Employer

1701 N. Congress Avenue PO Box 13326 Austin, TX 78711 512/936-7000 Fax: 512/936-7003 web site: www.puc.state.tx.us

Consistent with Commission Staff's recommendation, Quadvest's application and notice are sufficient and the pass-through rate as noticed on January 21, 2016 is approved. The approved tariff pages are attached to this Notice.

SIGNED AT AUSTIN, TEXAS on the 24th day of February 2016.

PUBLIC UTILITY COMMISSION OF TEXAS



SUSAN E. GOODSON
ADMINISTRATIVE LAW JUDGE

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WATER UTILITY TARIFF

Docket Number: 45548

Quadvest, L.P.
(Utility Name)

26926 FM 2978
(Business Address)

Magnolia, Texas 77354
(City, State, Zip Code)

281/356-5347
(Area Code/Telephone)

This tariff is effective for utility operations under the following Certificate of Convenience and Necessity:

11612

This tariff is effective in the following counties:

Aransas, Brazoria, Fort Bend, Harris, Jackson, Liberty, Montgomery and Waller

This tariff is effective in the following cities or unincorporated towns (if any):

Richmond (portion of Bridlewood Estates only - same rates)

This tariff is effective in the following subdivisions or systems:

See attached chart.

TABLE OF CONTENTS

The above utility lists the following sections of its tariff (if additional pages are needed for a section, all pages should be numbered consecutively):

SECTION 1.0 -- RATE SCHEDULE.....	2
SECTION 2.0 -- SERVICE RULES AND POLICIES.....	3
SECTION 3.0 -- EXTENSION POLICY	11
SECTION 4.0 -- DROUGHT CONTINGENCY PLAN.....	18

APPENDIX A -- SAMPLE SERVICE AGREEMENT
APPENDIX B -- APPLICATION FOR SERVICE

SUBDIVISION	PWS NUMBER	ID	COUNTY
Bauer Road	Pending		Harris
Benders Landing I, II	1700678		Montgomery
Benders Landing Estates	1700678		Montgomery
Brazos Lakes	0790363		Fort Bend
Bridlewood Estates	0790350		Fort Bend
Campwood	1700624		Montgomery
Canterbury Ranch	1700624		Montgomery
Chenango Ranch	0200656		Brazoria
Clear Creek Forest (Section 13 North)	1700576		Montgomery
The Colony	1011806		Harris
Estates of Clear Creek	1700576		Montgomery
Creeside Village	1700742		Montgomery
Decker Oaks Subdivision	1700605		Montgomery
Grand San Jacinto	14600179		Liberty
Indigo Lakes Estates	1700576		Montgomery
Lake Windcrest	1700624		Montgomery
Live Oak Landing	1610129		Matagorda
Lone Star Ranch	1700655		Montgomery
Magnolia Lakes	1700736		Montgomery
McCall Sound	1700763		Montgomery
Montgomery Trace	1700577		Montgomery
Mostyn Manor I, II, III	1700669		Montgomery
Northcrest Ranch Section I, II, III	1700623		Montgomery
Oaks of Sun creek	0200640		Brazoria
Red Oak Ranch	1700609		Montgomery
Rocky Creek	1013393		Harris
Sawmill Estates	1700576		Montgomery
Sendera Ranch	1700577		Montgomery
Shaw Acres	1013468		Harris

SECTION 1.0 -- RATE SCHEDULE

Section 1.01 - Rates

<u>Meter Size</u>	<u>Monthly Minimum Charge</u>	<u>Gallage Charge</u>
5/8" or 3/4"	\$28.75 (Includes 0 gallons)	\$1.75 per 1000 gallons for the first 10,999 gallons
1"	\$71.88	\$2.00 per 1,000 gallons from 11,000 to 20,999 gallons
1 1/2"	\$143.75	\$2.25 per 1,000 gallons from 21,000 to 30,999 gallons
2"	\$230.00	\$3.00 per 1,000 gallons thereafter
3"	\$460.00	
4"	\$718.75	
6"	\$1,437.50	

An additional pass through gallage charge of \$2.60 per 1,000 gallons of water will be added for fees imposed by any non-affiliated third party water supplier or underground water district having jurisdiction over the utility. Bluebonnet GRP, Brazoria GRP, City of Rosenberg GRP, North Fort Bend GRP, West Harris Regional, Harris-Galveston. Subsidence District, San Jacinto River Authority GRP (Docket No. 45548). SEE PURCHASED WATER AND/OR DISTRICT FEE PASS THROUGH CLAUSE.

FORM OF PAYMENT: The utility will accept the following forms of payment:

Cash X, Check X, Money Order X, Credit Card X, Other (specify) Bank Draft
THE UTILITY MAY REQUIRE EXACT CHANGE FOR PAYMENTS AND MAY REFUSE TO ACCEPT PAYMENTS MADE USING MORE THAN \$1.00 IN SMALL COINS. A WRITTEN RECEIPT WILL BE GIVEN FOR CASH PAYMENTS.

REGULATORY ASSESSMENT.....1.0%
PUC RULES REQUIRE THE UTILITY TO COLLECT A FEE OF ONE PERCENT OF THE RETAIL MONTHLY BILL AND TO REMIT THE FEE TO THE TCEQ.

Section 1.02 - Miscellaneous Fees

TAP FEE.....\$790.00
TAP FEE COVERS THE UTILITY'S COSTS FOR MATERIALS AND LABOR TO INSTALL A STANDARD RESIDENTIAL 5/8" x 3/4" METER. AN ADDITIONAL FEE TO COVER UNIQUE COSTS IS PERMITTED IF LISTED ON THIS TARIFF.

TAP FEE.....\$870.00
TAP FEE COVERS THE UTILITY'S COSTS FOR MATERIALS AND LABOR TO INSTALL A STANDARD 3/4" and 1" METER. AN ADDITIONAL FEE TO COVER UNIQUE COSTS IS PERMITTED IF LISTED ON THIS TARIFF.

TAP FEE (Large meter)Actual Cost
TAP FEE IS THE UTILITY'S ACTUAL COST FOR MATERIALS AND LABOR FOR METER SIZE INSTALLED.

SUBDIVISION	PWS ID NUMBER	COUNTY
Sierra Woods	1700624	Montgomery
Sonoma Ridge	1700763	Montgomery
Stonecrest Ranch	1700611	Montgomery
Summerset Estates	1700655	Montgomery
Suncreek Estates	0200640	Brazoria
Suncreek Ranch	0200616	Brazoria
Sunrise Bay	1200037	Jackson
Sunset Bay	0040055	Aransas
Telge Terrace	1011805	Harris
Timberdale	1011810	Harris
Vaquero River Estates	1610129	Matagorda
Waterstone Estates	1013389	Harris
Westwood	2370042	Waller
Windcrest Farms	1700577	Montgomery
Yesterdays Crossing	1700758	Montgomery

The rates set or approved by the city for the systems entirely within its corporate boundary are not presented in this tariff. Those rates are not under the original jurisdiction of the PUC and will have to be obtained from the city or utility.

SECTION 1.0 — RATE SCHEDULE (CONTINUED)

RECONNECTION FEE

THE RECONNECT FEE MUST BE PAID BEFORE SERVICE CAN BE RESTORED TO A CUSTOMER WHO HAS BEEN DISCONNECTED FOR THE FOLLOWING REASONS (OR OTHER REASONS LISTED UNDER SECTION 2.0 OF THIS TARIFF):

- a) Non payment of bill (Maximum \$25.00)..... \$25.00
 - b) Customer's request that service be disconnected \$50.00
- OR OTHER REASONS LISTED UNDER SECTION 2.0 OF THIS TARIFF

SEASONAL RECONNECTION FEE:

BASE RATE TIMES NUMBER OF MONTHS OFF THE SYSTEM NOT TO EXCEED SIX MONTHS WHEN LEAVE AND RETURN WITHIN A TWELVE MONTH PERIOD.

TRANSFER FEE \$45.00

THE TRANSFER FEE WILL BE CHARGED FOR CHANGING AN ACCOUNT NAME AT THE SAME SERVICE LOCATION WHEN THE SERVICE IS NOT DISCONNECTED.

LATE CHARGE (EITHER \$5.00 OR 10% OF THE BILL) 10%

PUC RULES ALLOW A ONE-TIME PENALTY TO BE CHARGED ON DELINQUENT BILLS. A LATE CHARGE MAY NOT BE APPLIED TO ANY BALANCE TO WHICH THE PENALTY WAS APPLIED IN A PREVIOUS BILLING.

RETURNED CHECK CHARGE \$25.00

RETURNED CHECK CHARGES MUST BE BASED ON THE UTILITY'S DOCUMENTABLE COST.

CUSTOMER DEPOSIT RESIDENTIAL (Maximum \$50) \$50.00**COMMERCIAL & NON-RESIDENTIAL DEPOSIT..... 1/6TH OF ESTIMATED ANNUAL BILL****METER TEST FEE..... \$25.00**

THIS FEE WHICH SHOULD REFLECT THE UTILITY'S COST MAY BE CHARGED IF A CUSTOMER REQUESTS A SECOND METER TEST WITHIN A TWO-YEAR PERIOD AND THE TEST INDICATES THAT THE METER IS RECORDING ACCURATELY. THE FEE MAY NOT EXCEED \$25.

METER RELOCATION FEE..... Actual Cost to Relocate the existing Meter

THIS FEE MAY BE CHARGED IF A CUSTOMER REQUESTS RELOCATION OF AN EXISTING METER.

METER CONVERSION FEE Actual Cost to Convert the existing Meter

THIS FEE MAY BE CHARGED IF A CUSTOMER REQUESTS CHANGE OF SIZE OF AN EXISTING METER OR CHANGE IS REQUIRED BY MATERIAL CHANGE IN CUSTOMERS SERVICE DEMAND.

GOVERNMENTAL TESTING, INSPECTION AND COSTS SURCHARGE:

WHEN AUTHORIZED IN WRITING BY PUC AND AFTER NOTICE TO CUSTOMERS, THE UTILITY MAY INCREASE RATES TO RECOVER INCREASED COSTS FOR INSPECTION FEES AND WATER TESTING. [PUC Subst. R. 24.21(K)(2)]

LINE EXTENSION AND CONSTRUCTION CHARGES:

REFER TO SECTION 3.0—EXTENSION POLICY FOR TERMS, CONDITIONS, AND CHARGES WHEN NEW CONSTRUCTION IS NECESSARY TO PROVIDE SERVICE.

Docket No. 45548

SECTION 1.0 -- RATE SCHEDULE (CONTINUED)

TEMPORARY WATER RATE:

Unless otherwise superseded by PUC order or rule, if the Utility is ordered by a court or government body of competent jurisdiction to reduce its pumpage, production or water sales, the Utility shall be authorized to increase its approved gallonage charge according to the formula:

$$TGC = \frac{cgc + (pr)(cgc)(r)}{(1.0 - r)}$$

Where:

- TGC = temporary gallonage charge
- cgc = current gallonage charge
- r = water use reduction expressed as a decimal fraction (the pumping restriction)
- pr = percentage of revenues to be recovered expressed as a decimal fraction, for this tariff pr shall equal 0.5

To implement the Temporary Water Rate, the Utility must comply with all notice and other requirements of 16 TAC 24.21(I).

PURCHASED WATER AND/OR DISTRICT FEE PASS THROUGH CLAUSE:

Changes in fees imposed by any non-affiliated third party water supplier or underground water district having jurisdiction over the Utility shall be passed through as an adjustment to the water gallonage charge according to the following formula:

$$RVP = (E + (AP - AC)) / (JC \times AU), \text{ Where:}$$

- RVP = Adjusted gallonage charge, rounded to the nearest cent
- E = Estimated sum of upcoming 12 months of purchase water and groundwater conservation district costs
- AP = Actual payments up to 12 months (February through January of previous year)
- AC = Actual collections up to 12 months (February through January of previous year)
- JC = January month end customer connections
- AU = Average annual usage per connection from most recent rate case

The adjusted gallonage charge must be true up and adjusted every twelve months.

To implement, all notice requirements must be met.

With the annual true up report adjusting the pass through for the next 12 months, the utility shall provide a five year report showing the annual and accumulated difference between pass through amounts collected from customers and amounts actually paid to the entities whose charges are included in the pass through and the formula for the estimates included in the pass through charge, the definition of all variables used in the estimate, the basis for any projections and any standard operating procedures of the utility for estimating.

SECTION 1.0 – RATE SCHEDULE (Continued)

Section 1.01 - Rates

<u>Meter Size</u>	<u>Monthly Minimum Charge</u>	<u>Gallage Charge</u>
5/8" or 3/4"	\$17.98 (Includes 0 gallons)	\$2.29 per 1000 gallons
1"	\$44.95	
1½"	\$89.90	
2"	\$143.84	
3"	\$269.71	
4"	\$449.51	
6"	\$899.02	
8"	\$1,438.43	

An additional pass through gallage charge of \$2.60 per 1,000 gallons of water will be added for fees imposed by any non-affiliated third party water supplier or underground water district having jurisdiction over the Utility: Bluebonnet GRP, Brazoria GRP, City of Rosenberg GRP, North Fort Bend GRP, West Harris Regional, Harris-Galveston Subsidence District, San Jacinto River Authority GRP (Docket No. 45548). **SEE PURCHASED WATER AND/OR DISTRICT FEE PASS THROUGH CLAUSE.**

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Where:

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Exhibit L

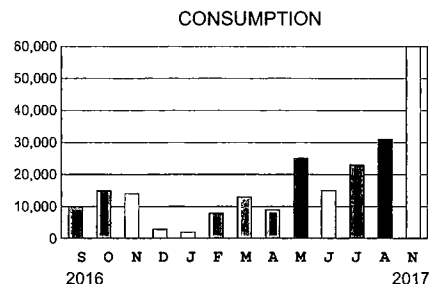


Quadvest, L.P.
PO Box 409
Tomball, TX 77377

BILLING DATE 09/09/16	DUE DATE 09/28/2016	ACCOUNT NUMBER 00001104
AMOUNT DUE IF PAID BY DUE DATE 195.44		AFTER DUE DATE AMOUNT 214.98
BILLING QUESTIONS? PLEASE CALL: (281) 356-5347		

METER SIZE	SERVICE DATES	DAYS USED
5/8 x 3/4	07/28 - 08/31	34
PREVIOUS READING	PRESENT READING	CONSUMPTION
32000	67000	35000
METER NUMBER	SERVICE LOCATION	
12200027	10614 Serenity Sound	
IMPORTANT MESSAGE		
Thank you for your business. We appreciate the opportunity to serve you and your family.		
</		

DESCRIPTION OF CHARGES	AMOUNT
PREVIOUS BALANCE	334.42
PAYMENTS RECEIVED 08/23/16	(334.42)
PAST DUE BALANCE	0.00
CURRENT BILLING	
WATER BASE RATE	28.75
USAGE	74.65
TCEQ ASSESSMENT	1.04
PASS-THRU FEE	91.00
TOTAL CURRENT CHARGES	195.44
	AMOUNT DUE
	195.44



To ensure proper credit, detach bottom portion and return in the enclosed envelope

Quadvest, L.P.
PO Box 409
Tomball, TX 77377

☐ If your address has changed, please check this box and make changes on reverse side.

ADDRESSEE:

Gail & Charlie Acebo
 10614 Serenity Sound
 Magnolia, TX 77354

BILLING DATE 09/09/16	DUE DATE 09/28/2016	ACCOUNT # 00001104
BY DUE DATE 195.44	AFTER DUE DATE 214.98	AMOUNT PAID

MAKE CHECKS PAYABLE AND REMIT TO:

Quadvest, L.P.
 PO Box 409
 Tomball, TX 77377



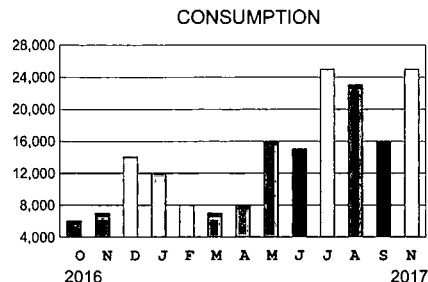


Quadvest, L.P.
PO Box 409
Tomball, TX 77377

BILLING DATE 09/09/16	DUE DATE 09/28/2016	ACCOUNT NUMBER 18333101
AMOUNT DUE IF PAID BY DUE DATE 661.45		AFTER DUE DATE AMOUNT 687.02
BILLING QUESTIONS? PLEASE CALL: (281) 356-5347		

METER SIZE	SERVICE DATES	DAYS USED
1"	07/28 - 08/31	34
PREVIOUS READING	PRESENT READING	CONSUMPTION
25000	63000	38000
METER NUMBER	SERVICE LOCATION	
13163873	11018 Lake Windcrest Blvd.	
IMPORTANT MESSAGE		
<p>All previous balances are due IMMEDIATELY.</p> <p>Thank you for your business. We appreciate the opportunity to serve you and your family.</p>		
<p>QUADVEST CUSTOMER SERVICE</p> <p>281-356-5347</p> <p>8AM - 4:30PM MONDAY - FRIDAY</p> <p>TO MAKE A PAYMENT SELECT OPTION 1</p> <p>TO HEAR CURRENT OUTAGES SELECT OPTION 3</p>		

DESCRIPTION OF CHARGES	AMOUNT
PREVIOUS BALANCE	405.78
PAYMENTS RECEIVED	0.00
PAST DUE BALANCE	405.78
CURRENT BILLING	
WATER BASE RATE	71.88
USAGE	83.44
TCEQ ASSESSMENT	1.55
PASS-THRU FEE	98.80
TOTAL CURRENT CHARGES	255.67
	AMOUNT DUE
	661.45



To ensure proper credit, detach bottom portion and return in the enclosed envelope

Quadvest, L.P.
PO Box 409
Tomball, TX 77377

☐ If your address has changed, please check this box and make changes on reverse side

ADDRESSEE:

Brian Barrett
 11018 Lake Windcrest
 Magnolia, TX 77354

BILLING DATE 09/09/16	DUE DATE 09/28/2016	ACCOUNT # 18333101
BY DUE DATE 661.45	AFTER DUE DATE 687.02	AMOUNT PAID

MAKE CHECKS PAYABLE AND REMIT TO:

Quadvest, L.P.
 PO Box 409
 Tomball, TX 77377



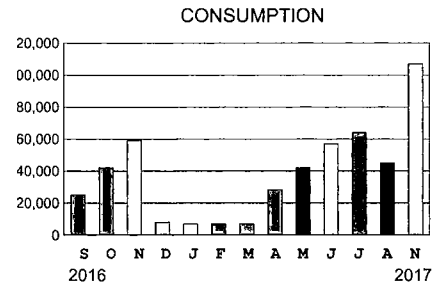


Quadvest, L.P.
PO Box 409
Tomball, TX 77377

BILLING DATE 09/09/16	DUE DATE 09/28/2016	ACCOUNT NUMBER 00004412
AMOUNT DUE IF PAID BY DUE DATE 239.91		AFTER DUE DATE AMOUNT 263.90
BILLING QUESTIONS? PLEASE CALL: (281) 356-5347		

METER SIZE	SERVICE DATES	DAYS USED
5/8 x 3/4	07/28 - 08/31	34
PREVIOUS READING	PRESENT READING	CONSUMPTION
10000	53000	43000
METER NUMBER	SERVICE LOCATION	
12245700	10507 Crystal Cove	
IMPORTANT MESSAGE		
Thank you for your business. We appreciate the opportunity to serve you and your family		
</		

DESCRIPTION OF CHARGES	AMOUNT
PREVIOUS BALANCE	501.20
PAYMENTS RECEIVED 08/26/16	(501.20)
PAST DUE BALANCE	0.00
CURRENT BILLING	
WATER BASE RATE	28.75
USAGE	98.09
TCEQ ASSESSMENT	1.27
PASS-THRU FEE	111.80
TOTAL CURRENT CHARGES	239.91
	AMOUNT DUE
	239.91



To ensure proper credit, detach bottom portion and return in the enclosed envelope

Quadvest, L.P.
PO Box 409
Tomball, TX 77377

☐ If your address has changed, please check this box and make changes on reverse side

ADDRESSEE:

Richard & Gina Deming
 10507 Crystal Cove Drive
 Magnolia, TX 77354

BILLING DATE 09/09/16	DUE DATE 09/28/2016	ACCOUNT # 00004412
BY DUE DATE 239.91	AFTER DUE DATE 263.90	AMOUNT PAID

MAKE CHECKS PAYABLE AND REMIT TO:

Quadvest, L.P.
 PO Box 409
 Tomball, TX 77377



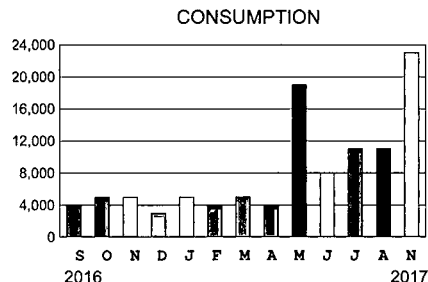


Quadvest, L.P.
PO Box 409
Tomball, TX 77377

BILLING DATE 09/09/16	DUE DATE 09/28/2016	ACCOUNT NUMBER 00009310
AMOUNT DUE IF PAID BY DUE DATE 128.66	AFTER DUE DATE AMOUNT 141.53	
BILLING QUESTIONS? PLEASE CALL: (281) 356-5347		

METER SIZE	SERVICE DATES	DAYS USED
5/8 x 3/4	07/28 - 08/31	34
PREVIOUS READING	PRESENT READING	CONSUMPTION
10000	32000	22000
METER NUMBER	SERVICE LOCATION	
13142829	32643 Green Bend Court	
IMPORTANT MESSAGE		
Do NOT Pay - Your Account is on Autopay Thank you for your business. We appreciate the opportunity to serve you and your family.		
QUADVEST CUSTOMER SERVICE 281-356-5347 8AM - 4:30PM MONDAY - FRIDAY TO MAKE A PAYMENT SELECT OPTION 1 TO HEAR CURRENT OUTAGES SELECT OPTION 3		

DESCRIPTION OF CHARGES	AMOUNT
PREVIOUS BALANCE	206.56
PAYMENTS RECEIVED 08/28/16	(206.56)
PAST DUE BALANCE	0.00
CURRENT BILLING	
WATER BASE RATE	28.75
USAGE	42.00
TCEQ ASSESSMENT	0.71
PASS-THRU FEE	57.20
TOTAL CURRENT CHARGES	128.66
	AMOUNT DUE
	128.66



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PO Box 409
Tomball, TX 77377

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ADDRESSEE:

Timothy Moore
 Mary Joan Erato
 32643 Green Bend Ct
 Magnolia, TX 77354



BILLING DATE 09/09/16	DUE DATE 09/28/2016	ACCOUNT # 00009310
BY DUE DATE DRAFT ACCT	AFTER DUE DATE DRAFT ACCT	AMOUNT PAID

MAKE CHECKS PAYABLE AND REMIT TO:

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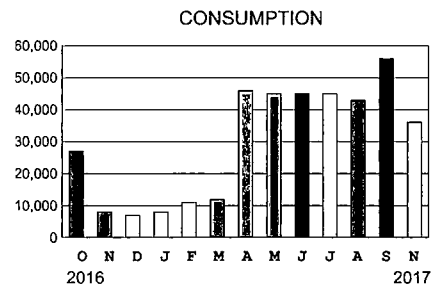


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BILLING DATE 09/09/16	DUE DATE 09/28/2016	ACCOUNT NUMBER 18152001
AMOUNT DUE IF PAID BY DUE DATE 261.23		AFTER DUE DATE AMOUNT 287.35
BILLING QUESTIONS? PLEASE CALL: (281) 356-5347		

METER SIZE	SERVICE DATES	DAYS USED
1"	07/28 - 08/31	34
PREVIOUS READING	PRESENT READING	CONSUMPTION
17000	56000	39000
METER NUMBER	SERVICE LOCATION	
12242338	10118 Clubhouse Cir	
IMPORTANT MESSAGE		
Thank you for your business. We appreciate the opportunity to serve you and your family.		

DESCRIPTION OF CHARGES	AMOUNT
PREVIOUS BALANCE	355.74
PAYMENTS RECEIVED 08/28/16	(355.74)
PAST DUE BALANCE	0.00
CURRENT BILLING	
WATER BASE RATE	71.88
USAGE	86.37
TCEQ ASSESSMENT	1.58
PASS-THRU FEE	101.40
TOTAL CURRENT CHARGES	261.23
	AMOUNT DUE
	261.23



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ADDRESSEE:

Gladys Floyd
 10118 Clubhouse Circle
 Magnolia, TX 77354

BILLING DATE 09/09/16	DUE DATE 09/28/2016	ACCOUNT # 18152001
BY DUE DATE 261.23	AFTER DUE DATE 287.35	AMOUNT PAID

MAKE CHECKS PAYABLE AND REMIT TO:

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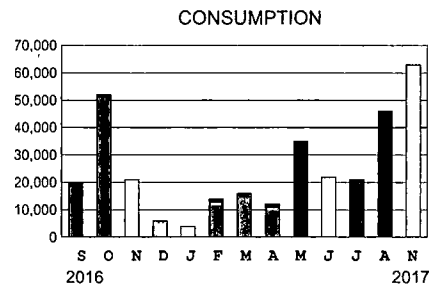


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BILLING DATE 09/09/16	DUE DATE 09/28/2016	ACCOUNT NUMBER 00008386
AMOUNT DUE IF PAID BY DUE DATE 350.18		AFTER DUE DATE AMOUNT 385.20
BILLING QUESTIONS? PLEASE CALL: (281) 356-5347		

METER SIZE	SERVICE DATES	DAYS USED
1"	07/28 - 08/31	34
PREVIOUS READING	PRESENT READING	CONSUMPTION
31000	86000	55000
METER NUMBER	SERVICE LOCATION	
12242539	9335 Clubhouse Cir	
IMPORTANT MESSAGE		
Do NOT Pay - Your Account is on Autopay Thank you for your business. We appreciate the opportunity to serve you and your family.		
QUADVEST CUSTOMER SERVICE 281-356-5347 8AM - 4:30PM MONDAY - FRIDAY TO MAKE A PAYMENT SELECT OPTION 1 TO HEAR CURRENT OUTAGES SELECT OPTION 3		

DESCRIPTION OF CHARGES	AMOUNT
PREVIOUS BALANCE	628.15
PAYMENTS RECEIVED 08/28/16	(628.15)
PAST DUE BALANCE	0.00
CURRENT BILLING	
WATER BASE RATE	71.88
USAGE	133.25
TCEQ ASSESSMENT	2.05
PASS-THRU FEE	143.00
TOTAL CURRENT CHARGES	350.18
	AMOUNT DUE
	350.18



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ADDRESSEE:

Paul Gardaphe
 9335 Clubhouse Circle
 Magnolia, TX 77354

BILLING DATE 09/09/16	DUE DATE 09/28/2016	ACCOUNT # 00008386
BY DUE DATE DRAFT ACCT	AFTER DUE DATE DRAFT ACCT	AMOUNT PAID
MAKE CHECKS PAYABLE AND REMIT TO:		

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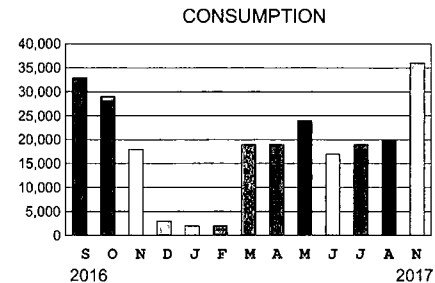


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BILLING DATE 09/09/16	DUE DATE 09/28/2016	ACCOUNT NUMBER 00013176
AMOUNT DUE IF PAID BY DUE DATE 184.32		AFTER DUE DATE AMOUNT 202.75
BILLING QUESTIONS? PLEASE CALL: (281) 356-5347		

METER SIZE	SERVICE DATES	DAYS USED
1"	07/28 - 08/31	34
PREVIOUS READING	PRESENT READING	CONSUMPTION
19000	52000	33000
METER NUMBER	SERVICE LOCATION	
12243365	10314 Serenity Sound	
IMPORTANT MESSAGE		
Do NOT Pay - Your Account is on Autopay Thank you for your business. We appreciate the opportunity to serve you and your family.		
QUADVEST CUSTOMER SERVICE 281-356-5347 8AM - 4.30PM MONDAY - FRIDAY TO MAKE A PAYMENT SELECT OPTION 1 TO HEAR CURRENT OUTAGES SELECT OPTION 3		

DESCRIPTION OF CHARGES	AMOUNT
PREVIOUS BALANCE	289.94
PAYMENTS RECEIVED 08/26/16	(289.94)
PAST DUE BALANCE	0.00
CURRENT BILLING	
WATER BASE RATE	28.75
USAGE	68.79
TCEQ ASSESSMENT	0.98
PASS-THRU FEE	85.80
TOTAL CURRENT CHARGES	184.32
	AMOUNT DUE
	184.32



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ADDRESSEE:

Randolph Hansen
 10314 Serenity Sound
 Magnolia, TX 77354

BILLING DATE 09/09/16	DUE DATE 09/28/2016	ACCOUNT # 00013176
BY DUE DATE DRAFT ACCT	AFTER DUE DATE DRAFT ACCT	AMOUNT PAID

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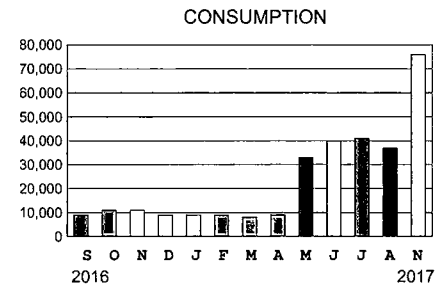


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BILLING DATE 09/09/16	DUE DATE 09/28/2016	ACCOUNT NUMBER 00007103
AMOUNT DUE IF PAID BY DUE DATE 274.87		AFTER DUE DATE AMOUNT 302.36
BILLING QUESTIONS? PLEASE CALL: (281) 356-5347		

METER SIZE	SERVICE DATES	DAYS USED
5/8 x 3/4	07/28 - 08/31	34
PREVIOUS READING	PRESENT READING	CONSUMPTION
17000	73000	56000
METER NUMBER	SERVICE LOCATION	
12233214	10411 Serenity Sound	
IMPORTANT MESSAGE		
Thank you for your business We appreciate the opportunity to serve you and your family		
QUADVEST CUSTOMER SERVICE 281-356-5347 8AM - 4:30PM MONDAY - FRIDAY TO MAKE A PAYMENT SELECT OPTION 1 TO HEAR CURRENT OUTAGES SELECT OPTION 3		

DESCRIPTION OF CHARGES	AMOUNT
PREVIOUS BALANCE	162.69
PAYMENTS RECEIVED 08/16/16	(200.00)
PAST DUE BALANCE	(37.31)
CURRENT BILLING	
WATER BASE RATE	28.75
USAGE	136.18
TCEQ ASSESSMENT	1.65
PASS-THRU FEE	145.60
TOTAL CURRENT CHARGES	312.18
	AMOUNT DUE
	274.87



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ADDRESSEE:

Dana & Martin Leo
 10411 Serenity Sound
 Magnolia, TX 77354

BILLING DATE 09/09/16	DUE DATE 09/28/2016	ACCOUNT # 00007103
BY DUE DATE 274.87	AFTER DUE DATE 302.36	AMOUNT PAID

MAKE CHECKS PAYABLE AND REMIT TO:

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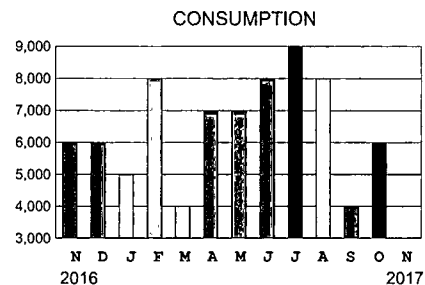


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BILLING DATE 09/27/16	DUE DATE 10/14/2016	ACCOUNT NUMBER 00013374
AMOUNT DUE IF PAID BY DUE DATE 123.27		AFTER DUE DATE AMOUNT 135.60
BILLING QUESTIONS? PLEASE CALL: (281) 356-5347		

METER SIZE	SERVICE DATES	DAYS USED
5/8 x 3/4	08/15 - 09/13	29
PREVIOUS READING	PRESENT READING	CONSUMPTION
10000	14000	4000
METER NUMBER	SERVICE LOCATION	
13140437	12130 Clara Ln	
IMPORTANT MESSAGE		
<p>Please note our new office hours Monday to Friday 8:00am to 4:30pm.</p> <p>Thank you for your business. We appreciate the opportunity to serve you and your family.</p>		
<p>QUADVEST CUSTOMER SERVICE 281-356-5347 8AM - 4:30PM MONDAY - FRIDAY TO MAKE A PAYMENT SELECT OPTION 1 TO HEAR CURRENT OUTAGES SELECT OPTION 3</p>		

DESCRIPTION OF CHARGES	AMOUNT
PREVIOUS BALANCE	164.43
PAYMENTS RECEIVED 09/16/16	(164.43)
PAST DUE BALANCE	0.00
CURRENT BILLING	
WATER BASE RATE	28.75
USAGE	7.00
SEWER BASE	76.00
TCEQ ASSESSMENT	1.12
PASS-THRU FEE	10.40
TOTAL CURRENT CHARGES	123.27
	AMOUNT DUE
	123.27



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ADDRESSEE:

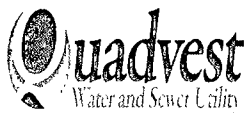
Ashely Sanders
 12130 Clara Ln
 Pinehurst, TX 77362

BILLING DATE 09/27/16	DUE DATE 10/14/2016	ACCOUNT # 00013374
BY DUE DATE 123.27	AFTER DUE DATE 135.60	AMOUNT PAID

MAKE CHECKS PAYABLE AND REMIT TO:

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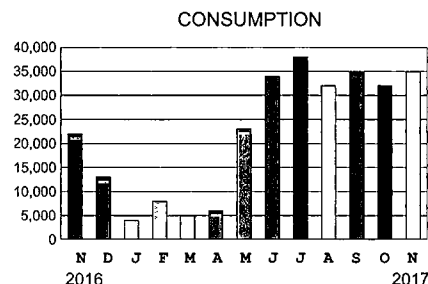


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BILLING DATE 09/09/16	DUE DATE 09/28/2016	ACCOUNT NUMBER 00007963
AMOUNT DUE IF PAID BY DUE DATE 249.96		AFTER DUE DATE AMOUNT 274.96
BILLING QUESTIONS? PLEASE CALL: (281) 356-5347		

METER SIZE	SERVICE DATES	DAYS USED
5/8 x 3/4	08/03 - 09/02	30
PREVIOUS READING	PRESENT READING	CONSUMPTION
43000	74000	31000
METER NUMBER	SERVICE LOCATION	
12232433	40610 Ithaca Lane	
IMPORTANT MESSAGE		
Thank you for your business. We appreciate the opportunity to serve you and your family.		

DESCRIPTION OF CHARGES	AMOUNT
PREVIOUS BALANCE	299.99
PAYMENTS RECEIVED 08/24/16	(299.99)
PAST DUE BALANCE	0.00
CURRENT BILLING	
WATER BASE RATE	28.75
USAGE	62.93
SEWER BASE	76.00
TCEQ ASSESSMENT	1.68
PASS-THRU FEE	80.60
TOTAL CURRENT CHARGES	249.96
	AMOUNT DUE
	249.96



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ADDRESSEE:

Maria & Allyn Watkins
 40610 Ithaca Lane
 Magnolia, TX 77354

BILLING DATE 09/09/16	DUE DATE 09/28/2016	ACCOUNT # 00007963
BY DUE DATE 249.96	AFTER DUE DATE 274.96	AMOUNT PAID

MAKE CHECKS PAYABLE AND REMIT TO:

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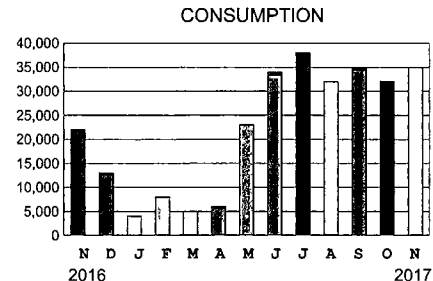


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Tomball, TX 77377

BILLING DATE 09/09/16	DUE DATE 09/28/2016	ACCOUNT NUMBER 00007963
AMOUNT DUE IF PAID BY DUE DATE 249.96		AFTER DUE DATE AMOUNT 274.96
BILLING QUESTIONS? PLEASE CALL: (281) 356-5347		

METER SIZE	SERVICE DATES	DAYS USED
5/8 x 3/4	08/03 - 09/02	30
PREVIOUS READING	PRESENT READING	CONSUMPTION
43000	74000	31000
METER NUMBER	SERVICE LOCATION	
12232433	40610 Ithaca Lane	
IMPORTANT MESSAGE		
Thank you for your business. We appreciate the opportunity to serve you and your family.		

DESCRIPTION OF CHARGES	AMOUNT
PREVIOUS BALANCE	299.99
PAYMENTS RECEIVED 08/24/16	(299.99)
PAST DUE BALANCE	0.00
CURRENT BILLING	
WATER BASE RATE	28.75
USAGE	62.93
SEWER BASE	76.00
TCEQ ASSESSMENT	1.68
PASS-THRU FEE	80.60
TOTAL CURRENT CHARGES	249.96
	AMOUNT DUE
	249.96



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☐ If your address has changed, please check this box and make changes on reverse side

ADDRESSEE:

Maria & Allyn Watkins
 40610 Ithaca Lane
 Magnolia, TX 77354

BILLING DATE 09/09/16	DUE DATE 09/28/2016	ACCOUNT # 00007963
BY DUE DATE 249.96	AFTER DUE DATE 274.96	AMOUNT PAID

MAKE CHECKS PAYABLE AND REMIT TO:

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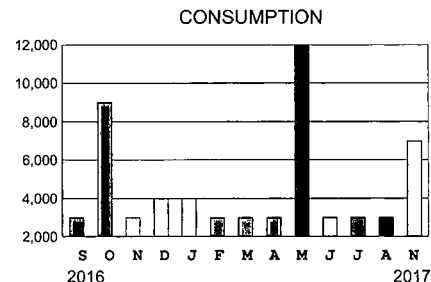


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BILLING DATE 09/09/16	DUE DATE 09/28/2016	ACCOUNT NUMBER 00005631
AMOUNT DUE IF PAID BY DUE DATE 255.67		AFTER DUE DATE AMOUNT 281.24
BILLING QUESTIONS? PLEASE CALL: (281) 356-5347		

METER SIZE	SERVICE DATES	DAYS USED
1"	07/28 - 08/31	34
PREVIOUS READING	PRESENT READING	CONSUMPTION
22000	60000	38000
METER NUMBER	SERVICE LOCATION	
12239346	29827 Edgewater Drive	
IMPORTANT MESSAGE		
Do NOT Pay - Your Account is on Autopay Thank you for your business. We appreciate the opportunity to serve you and your family.		
QUADVEST CUSTOMER SERVICE 281-356-5347 8AM - 4:30PM MONDAY - FRIDAY TO MAKE A PAYMENT SELECT OPTION 1 TO HEAR CURRENT OUTAGES SELECT OPTION 3		

DESCRIPTION OF CHARGES	AMOUNT
PREVIOUS BALANCE	196.58
PAYMENTS RECEIVED 08/28/16	(196.58)
PAST DUE BALANCE	0.00
CURRENT BILLING	
WATER BASE RATE	71.88
USAGE	83.44
TCEQ ASSESSMENT	1.55
PASS-THRU FEE	98.80
TOTAL CURRENT CHARGES	255.67
	AMOUNT DUE
	255.67



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ADDRESSEE:

Fang Yiu
 29827 Edgewater Drive
 Magnolia, TX 77354

BILLING DATE 09/09/16	DUE DATE 09/28/2016	ACCOUNT # 00005631
BY DUE DATE DRAFT ACCT	AFTER DUE DATE DRAFT ACCT	AMOUNT PAID

MAKE CHECKS PAYABLE AND REMIT TO:

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