WCID 17
WATER AUDIT

INDOOR AUDIT

- Perform a meter test for leaks. Turn off all equipment and check the meter to see if it is showing water flow (dial is moving).

- Place dye tablets or food coloring into the toilet tanks. If the color appears in the bowl within 10 minutes, it means there is a leak.

- Adjust the toilet float to a lower position by gently bending the arm or adjusting the screw.

- Check all faucets for leaks.

- Check the toilet flapper valves to see if they are sealed properly.

- Check shower heads for leaks.

- Test the flow rate of the shower. Use a one gallon bucket and a watch. Start the shower, then place the bucket directly beneath the showerhead while at the same time the timer, watch for 15 seconds. Measure the amount of water and multiply by four. This will give the amount of water that the shower uses in one minute.

- Check the settings on the dishwasher and washing machines. They should be on the lowest settings.

- Check toilets, faucets and showerheads to see if they can be replaced with water conserving fixtures.

OUTDOOR AUDIT

Irrigation System

- Check for leaks, overspray, run off and broken heads in the irrigation system.

- Check irrigation system timing settings to make sure it is watering the correct amount (i.e. approximately 1 inch every five days). To calculate the rate, use five or more containers (tuna cans or coffee cups), a ruler and a watch. Place the containers throughout the yard. Turn on the irrigation system for 15 minutes. Measure the depth of the water in the containers, take the average and multiply by four. This is the amount that the systems will apply to the yard in one hour.

- Check the moisture sensors for proper operation.

Outdoor Hose Bibs

- Check for proper backflow preventer installation.

- Check for leaks.

Water Audit Process

1. Customer requests an audit or the District identifies large users to be audited.

   The District usually assigns water audits to those customers using more than 100,000 gallons each month. As the seasons change, customers using over 50,000 gallons per month may also be selected for water audits. The water audit service is free and all customers with high usage are encouraged to take advantage of this service to find ways to minimize their outdoor water use.

2. Meter reader obtains data information.

   Many of the District's new automated meters have the technology to store data points on a small computer chip within the meter's register. This chip allows the information to be uploaded via radio frequency to a computer located in the meter reading truck. The water usage information can be gathered in different increments, from every 15 minutes to every 24 hours, and over several weeks, depending on how the information is requested by the reader.

3. Usage Graph.

   The graph is a tool that can be used to determine a customer's water use patterns. For example, the graph can show the days and times a customer's irrigation system has been operating or if there is a leak.

   The graphed information is provided to both the customer and the auditor so that they have the historical usage to compare to the amounts of water used as the audit is conducted.

4. The District auditor conducts the audit.

   Cycle runs and system checks. - The auditor will turn each zone on for a short run time to evaluate the run times with the area being irrigated for the type of irrigation equipment that is installed. The system is checked for leaks, broken heads, improper types of heads and controller settings.

   Recommendations. - The auditor will make recommendations for adjusting the frequency and run times of each zone if necessary to conserve water or better serve the vegetation that is being watered. A detailed chart is provided that outlines the current water use and run time for each zone and the recommended changes.

5. The District auditor sends the audit report to the customer and WCID 17.

6. The District and the customer continue to monitor water usage.

Irrigation Sys m Evaluation

Customer: Jeanette		Date: September 1, 2016	
Address: 1172		Meter EID # 1	
Audited by: Brian Dunn		Phone # (512)	
II #113		Email:	
Controller ID: Hunter Pro-C in Garage			
Rain Sensor: Yes			

Original Program	Run Days	Start Time	End Time	Total Run Time	Gallons Per Cycle	Average Cycles per Month	
A	Everyday	12:00 AM	6:00 AM	6 HRS	1675	120	
B						Volume Average Gallons per Month	
C						201,000	
D						Average Cost per Month for WCID #17	
						$1,961.50	
Revised Program	**Run Days**					**Average Cycles per Month**	
A	Tue & Fri	9:00 PM	10:30 PM	90 MIN	1675	8	
B						Volume Average Gallons per Month	
C						13400	
D						Average Cost per Month for WCID #17	
						$28.45	
# of Zones: 9							

Seasonal Adjustment - Run Times - Days *Summer 100% - 2 Days* *Spring & Fall 100% - 1 Day* *Winter 70% - 1 Day*

WCID 17 - Current Rates	
$1.90 per 1000 gallons (0 to 10,000) = $19.00	
$2.78 per 1000 gallons (10,001 to 15,000) = $13.90	
$4.12 per 1000 gallons (15,001 to 30,000) = $20.60	Add $20 monthly base rate for 3/4" meter
$6.24 per 1000 gallons (30,001 to 50,000) = $124.80	Add $17 monthly base rate for 5/8" meter
$9.00 per 1000 gallons (50,001 to 100,000) = $450.00	
$13.20 per 1000 gallons (over 100,000)	

WCID 17 - Irrigation System Evaluation

Customer:	**Address:**	**Date: September 9, 2016**
Controller: Hunter Pro-C in Garage	**Turf Type: Bemuda**	
Start Times: PGM A - 9:00PM, 10:00PM	**Rain Sensor: Yes**	

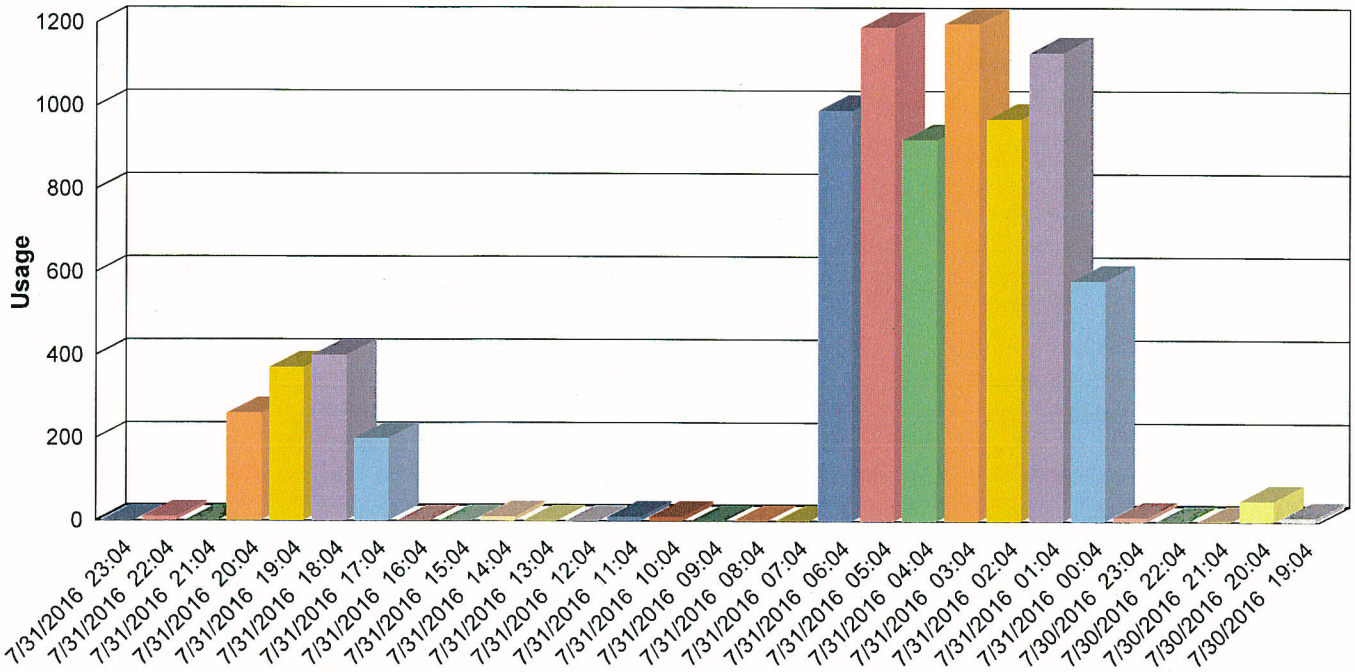
Zone No. & PGM		Original Run Time	Revised Run Time	Zone Description			Head Type & Quantity	GPM	Original Gallons Per Cycle	Revised Gallons Per Cycle	Repairs Required
1	*A*	10		Right Side of Driveway			Sprays	15	150	0	
	B			Turf			12				
	C			Sun							
2	*A*	10		Front Yard			Rotors	20	200	0	
	B			Turf			6				
	C			Sun	Shade						
3	*A*	10		Front Yard			Rotors	24	240	0	*Zone also includes 2 sprays*
	B			Turf			5				
	C			Sun	Shade						
4	*A*	10		Left Foundation			Sprays	23.5	235	0	
	B				Beds		20				
	C			Sun							
5	*A*	10					Sprays	19	190	0	
	B				Beds		17				
	C			Sun							
6	*A*	10		Back Left			Rotors	19	190	0	
	B			Turf	Beds		5				
	C				Shade						
7	*A*	10		Back Foundation			Rotors	10	100	0	
	B			Turf			2				
	C			Sun							
8	*A*	10		Back Below Pool			Rotors	17	170	0	
	B			Turf	Beds	Mixed	4				
	C			Sun	Shade						
9	*A*	10		Back Right			Rotors	20	200	0	
	B			Turf	Beds		5				
	C			Sun	Shade						
10	*A*								0	0	
	B			Turf	Beds	Mixed					
	C			Sun	Shade	Sloped					
Subtotals	*A*	90	0					167.5	1675	0	
Subtotals	*B*	0	0					0	0	0	
Subtotals	*C*	0	0					0	0	0	

MasterLink Data Collection System

8/17/2016 9:54 am

Data Log Event: 1805353

Data Log Report
From: 7/25/2016 (00:04) To: 7/31/2016 (23:04)
Address:
Customer:
MeterSN: Electronic ID:
Peak Consumption: 1200 Occurred 7/31/2016 (03:04)



Date & Time	Reading	Usage
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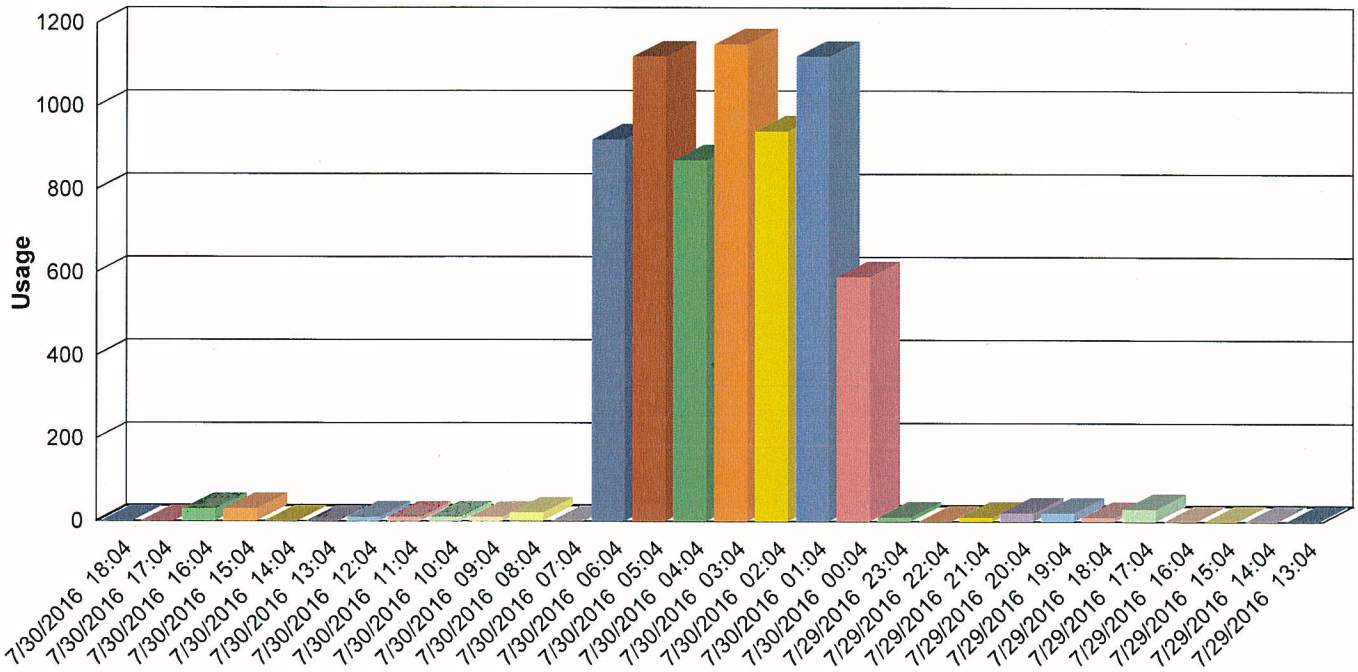
7/31/2016 19:04	607840	370
7/31/2016 18:04	607470	400
7/31/2016 17:04	607070	200
7/31/2016 16:04	606870	0
7/31/2016 15:04	606870	0
7/31/2016 14:04	606870	10
7/31/2016 13:04	606860	0
7/31/2016 12:04	606860	0
7/31/2016 11:04	606860	10
7/31/2016 10:04	606850	10
7/31/2016 09:04	606840	0
7/31/2016 08:04	606840	0
7/31/2016 07:04	606840	0
7/31/2016 06:04	606840	990
7/31/2016 05:04	605850	1190
7/31/2016 04:04	604660	920
7/31/2016 03:04	603740	1200
7/31/2016 02:04	602540	970
7/31/2016 01:04	601570	1130
7/31/2016 00:04	600440	580
7/30/2016 23:04	599860	10
7/30/2016 22:04	599850	0
7/30/2016 21:04	599850	0
7/30/2016 20:04	599850	50
7/30/2016 19:04	599800	10

MasterLink Data Collection System

8/17/2016 9:54 am

Data Log Event: 1805353

Data Log Report
From: 7/25/2016 (00:04) To: 7/31/2016 (23:04)
Address: 1
Customer:
MeterSN: Electronic ID:
Peak Consumption: 1200 Occurred 7/31/2016 (03:04)



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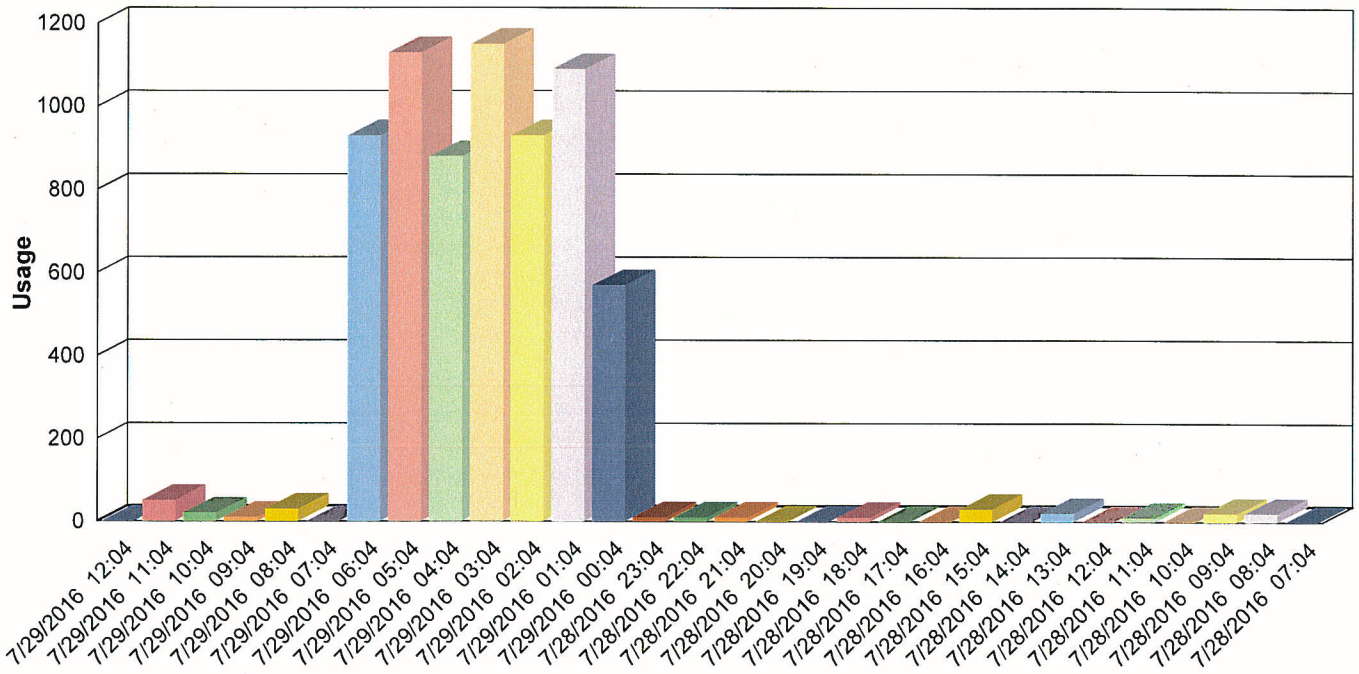
7/30/2016 15:04	599760	30
7/30/2016 14:04	599730	0
7/30/2016 13:04	599730	0
7/30/2016 12:04	599730	10
7/30/2016 11:04	599720	10
7/30/2016 10:04	599710	10
7/30/2016 09:04	599700	10
7/30/2016 08:04	599690	20
7/30/2016 07:04	599670	0
7/30/2016 06:04	599670	920
7/30/2016 05:04	598750	1120
7/30/2016 04:04	597630	870
7/30/2016 03:04	596760	1150
7/30/2016 02:04	595610	940
7/30/2016 01:04	594670	1120
7/30/2016 00:04	593550	590
7/29/2016 23:04	592960	10
7/29/2016 22:04	592950	0
7/29/2016 21:04	592950	10
7/29/2016 20:04	592940	20
7/29/2016 19:04	592920	20
7/29/2016 18:04	592900	10
7/29/2016 17:04	592890	30
7/29/2016 16:04	592860	0
7/29/2016 15:04	592860	0
7/29/2016 14:04	592860	0
7/29/2016 13:04	592860	0

MasterLink Data Collection System

8/17/2016 9:54 am

Data Log Event: 1805353

Data Log Report
From: 7/25/2016 (00:04) To: 7/31/2016 (23:04)
Address:
Customer:
MeterSN: **Electronic ID:**
Peak Consumption: 1200 Occurred 7/31/2016 (03:04)



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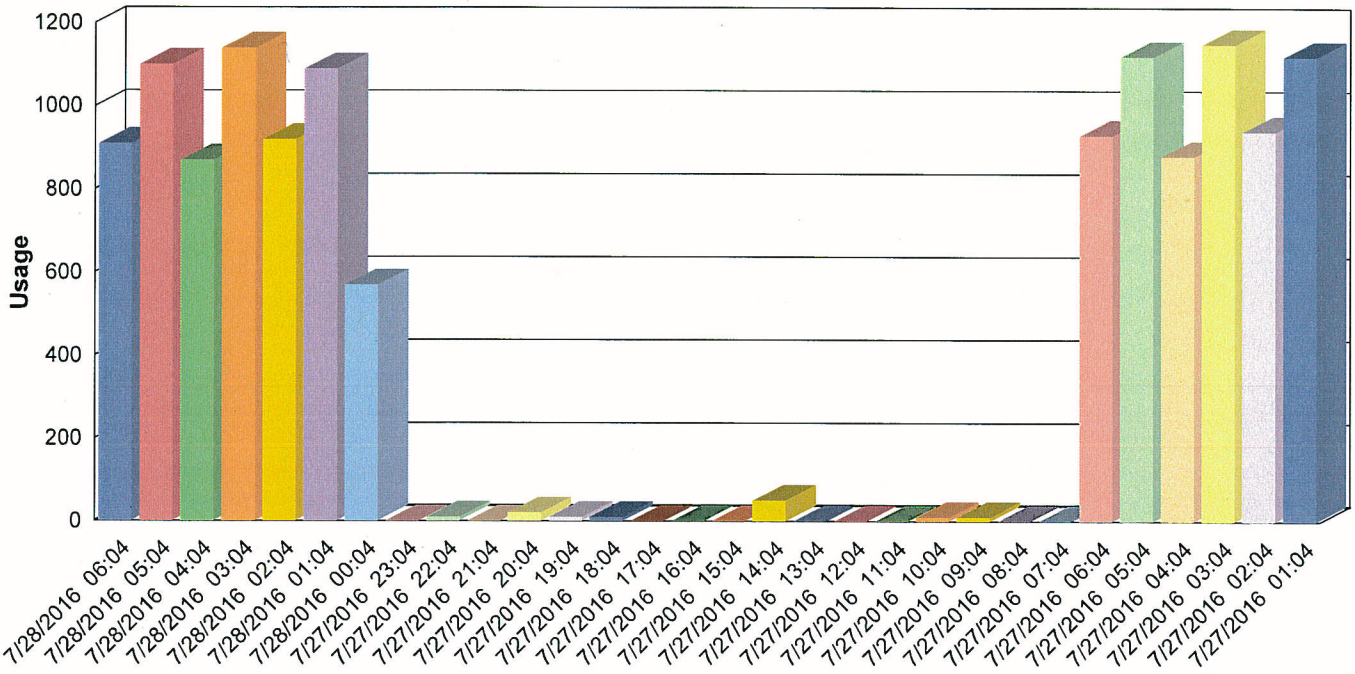
7/29/2016 10:04	592810	20
7/29/2016 09:04	592790	10
7/29/2016 08:04	592780	30
7/29/2016 07:04	592750	0
7/29/2016 06:04	592750	930
7/29/2016 05:04	591820	1130
7/29/2016 04:04	590690	880
7/29/2016 03:04	589810	1150
7/29/2016 02:04	588660	930
7/29/2016 01:04	587730	1090
7/29/2016 00:04	586640	570
7/28/2016 23:04	586070	10
7/28/2016 22:04	586060	10
7/28/2016 21:04	586050	10
7/28/2016 20:04	586040	0
7/28/2016 19:04	586040	0
7/28/2016 18:04	586040	10
7/28/2016 17:04	586030	0
7/28/2016 16:04	586030	0
7/28/2016 15:04	586030	30
7/28/2016 14:04	586000	0
7/28/2016 13:04	586000	20
7/28/2016 12:04	585980	0
7/28/2016 11:04	585980	10
7/28/2016 10:04	585970	0
7/28/2016 09:04	585970	20
7/28/2016 08:04	585950	20
7/28/2016 07:04	585930	0

MasterLink Data Collection System

8/17/2016 9:54 am

Data Log Event: 1805353

Data Log Report
From: 7/25/2016 (00:04) To: 7/31/2016 (23:04)
Address:
Customer:
MeterSN: **Electronic ID:**
Peak Consumption: 1200 Occurred 7/31/2016 (03:04)



Date & Time	Reading	Usage
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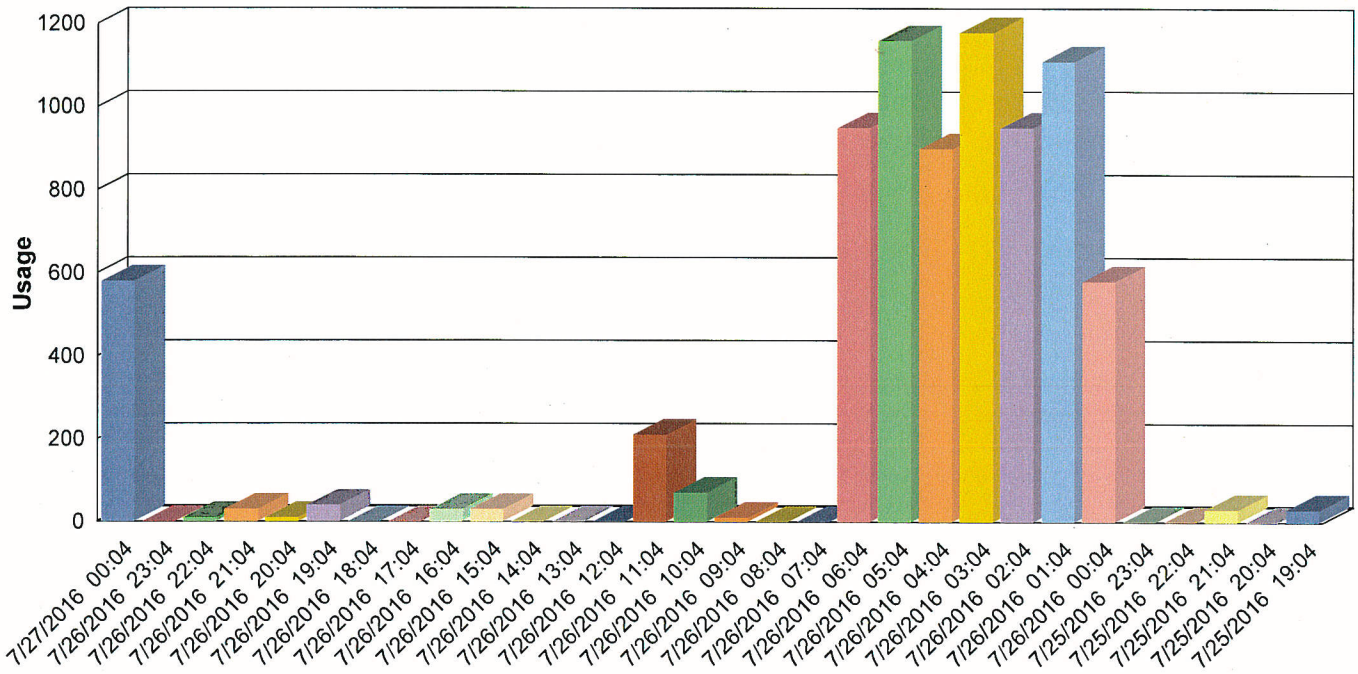
7/28/2016 05:04	585020	1100
7/28/2016 04:04	583920	870
7/28/2016 03:04	583050	1140
7/28/2016 02:04	581910	920
7/28/2016 01:04	580990	1090
7/28/2016 00:04	579900	570
7/27/2016 23:04	579330	0
7/27/2016 22:04	579330	10
7/27/2016 21:04	579320	0
7/27/2016 20:04	579320	20
7/27/2016 19:04	579300	10
7/27/2016 18:04	579290	10
7/27/2016 17:04	579280	0
7/27/2016 16:04	579280	0
7/27/2016 15:04	579280	0
7/27/2016 14:04	579280	50
7/27/2016 13:04	579230	0
7/27/2016 12:04	579230	0
7/27/2016 11:04	579230	0
7/27/2016 10:04	579230	10
7/27/2016 09:04	579220	10
7/27/2016 08:04	579210	0
7/27/2016 07:04	579210	0
7/27/2016 06:04	579210	930
7/27/2016 05:04	578280	1120
7/27/2016 04:04	577160	880
7/27/2016 03:04	576280	1150
7/27/2016 02:04	575130	940
7/27/2016 01:04	574190	1120

MasterLink Data Collection System

8/17/2016 9:54 am

Data Log Event: 1805353

Data Log Report
From: 7/25/2016 (00:04) To: 7/31/2016 (23:04)
Address: 1
Customer:
MeterSN: **Electronic ID:**
Peak Consumption: 1200 Occurred 7/31/2016 (03:04)



Date & Time	Reading	Usage
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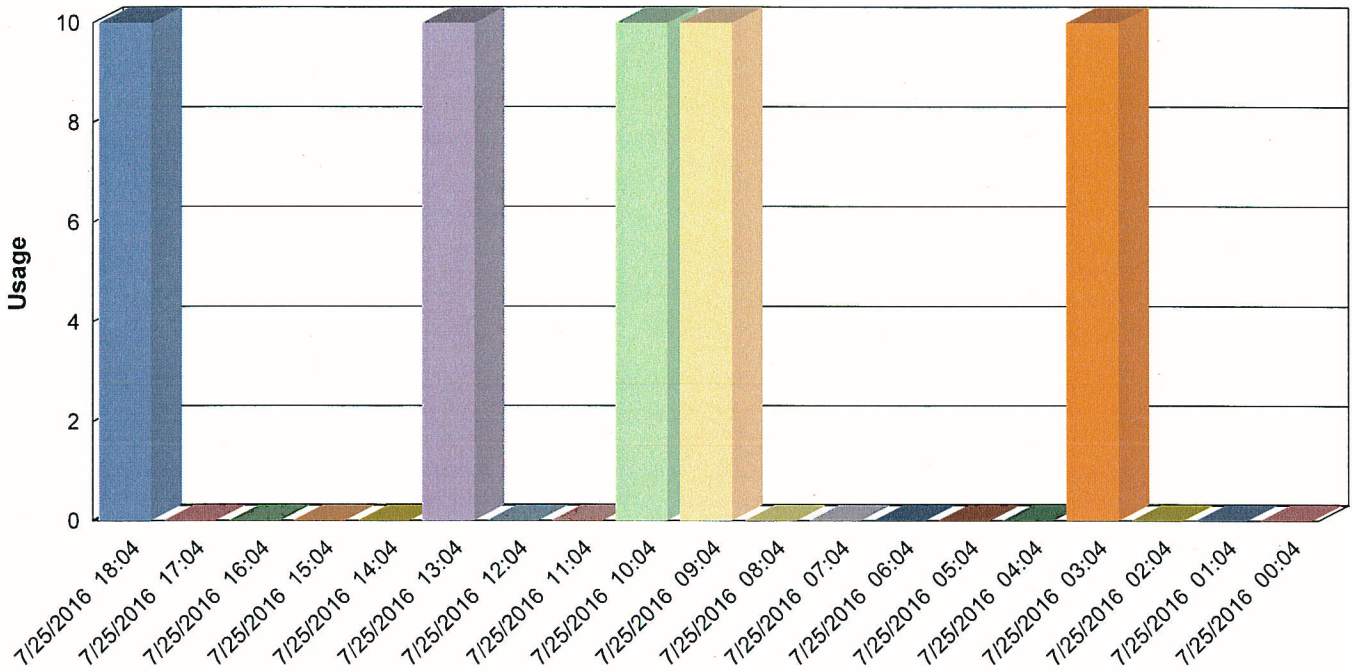
7/26/2016 23:04	572490	0
7/26/2016 22:04	572490	10
7/26/2016 21:04	572480	30
7/26/2016 20:04	572450	10
7/26/2016 19:04	572440	40
7/26/2016 18:04	572400	0
7/26/2016 17:04	572400	0
7/26/2016 16:04	572400	30
7/26/2016 15:04	572370	30
7/26/2016 14:04	572340	0
7/26/2016 13:04	572340	0
7/26/2016 12:04	572340	0
7/26/2016 11:04	572340	210
7/26/2016 10:04	572130	70
7/26/2016 09:04	572060	10
7/26/2016 08:04	572050	0
7/26/2016 07:04	572050	0
7/26/2016 06:04	572050	950
7/26/2016 05:04	571100	1160
7/26/2016 04:04	569940	900
7/26/2016 03:04	569040	1180
7/26/2016 02:04	567860	950
7/26/2016 01:04	566910	1110
7/26/2016 00:04	565800	580
7/25/2016 23:04	565220	0
7/25/2016 22:04	565220	0
7/25/2016 21:04	565220	30
7/25/2016 20:04	565190	0
7/25/2016 19:04	565190	30

MasterLink Data Collection System

8/17/2016 9:54 am

Data Log Event: 1805353

Data Log Report
From: 7/25/2016 (00:04) To: 7/31/2016 (23:04)
Address:
Customer:
MeterSN: Electronic ID:
Peak Consumption: 1200 Occurred 7/31/2016 (03:04)



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7/25/2016 16:04	565150	0
7/25/2016 15:04	565150	0
7/25/2016 14:04	565150	0
7/25/2016 13:04	565150	10
7/25/2016 12:04	565140	0
7/25/2016 11:04	565140	0
7/25/2016 10:04	565140	10
7/25/2016 09:04	565130	10
7/25/2016 08:04	565120	0
7/25/2016 07:04	565120	0
7/25/2016 06:04	565120	0
7/25/2016 05:04	565120	0
7/25/2016 04:04	565120	0
7/25/2016 03:04	565120	10
7/25/2016 02:04	565110	0
7/25/2016 01:04	565110	0
7/25/2016 00:04	565110	0

MasterLink Data Collection System

8/17/2016 9:54 am

Data Log Event: 1805353

Data Log Report
From: 7/25/2016 (00:04) To: 7/31/2016 (23:04)
Address:
Customer:
MeterSN: **Electronic ID:**
Peak Consumption: 1200 Occurred 7/31/2016 (03:04)

Number of Readings For This Data Log: 168

Average Usage For This Data Log: 256

Total Usage For This Data Log: 43000

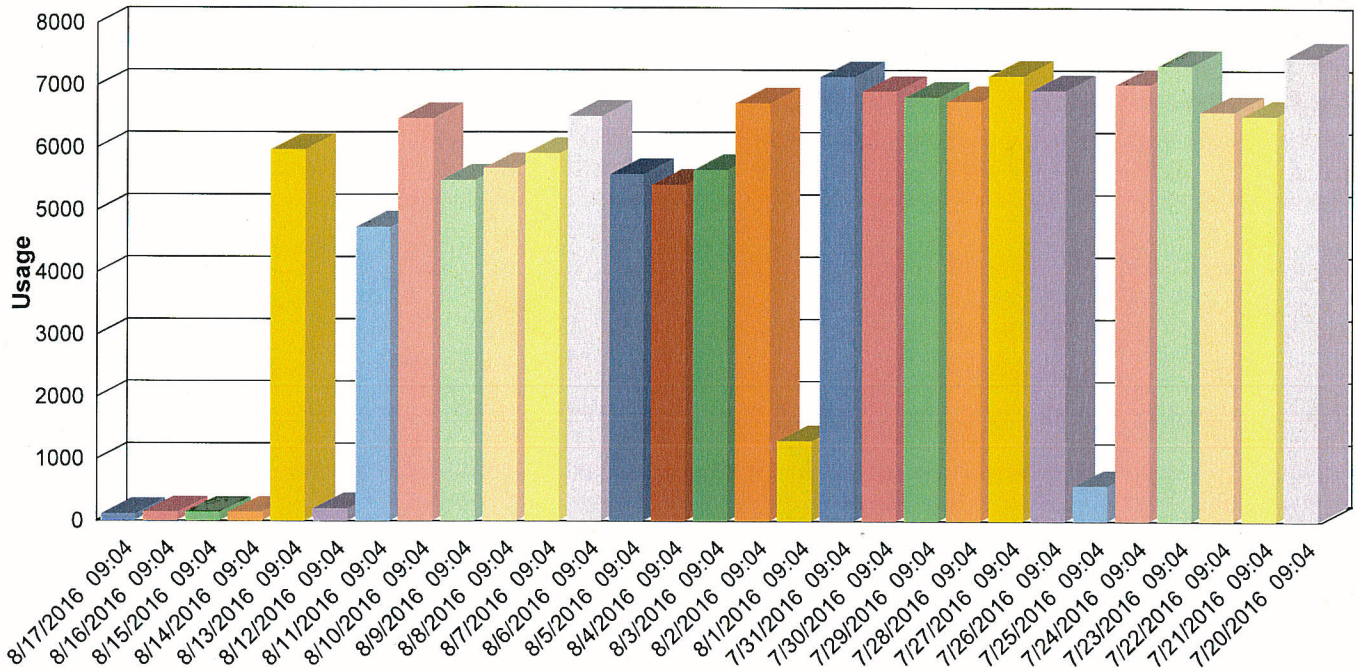
rev 2/2/2011

MasterLink Data Collection System

8/17/2016 9:55 am

Data Log Event: 1805352

Data Log Report
From: 6/3/2016 (09:04) To: 8/17/2016 (09:04)
Address:
Customer:
MeterSN: Electronic ID:
Peak Consumption: 9980 Occurred 6/16/2016 (09:04)



Date & Time	Reading	Usage
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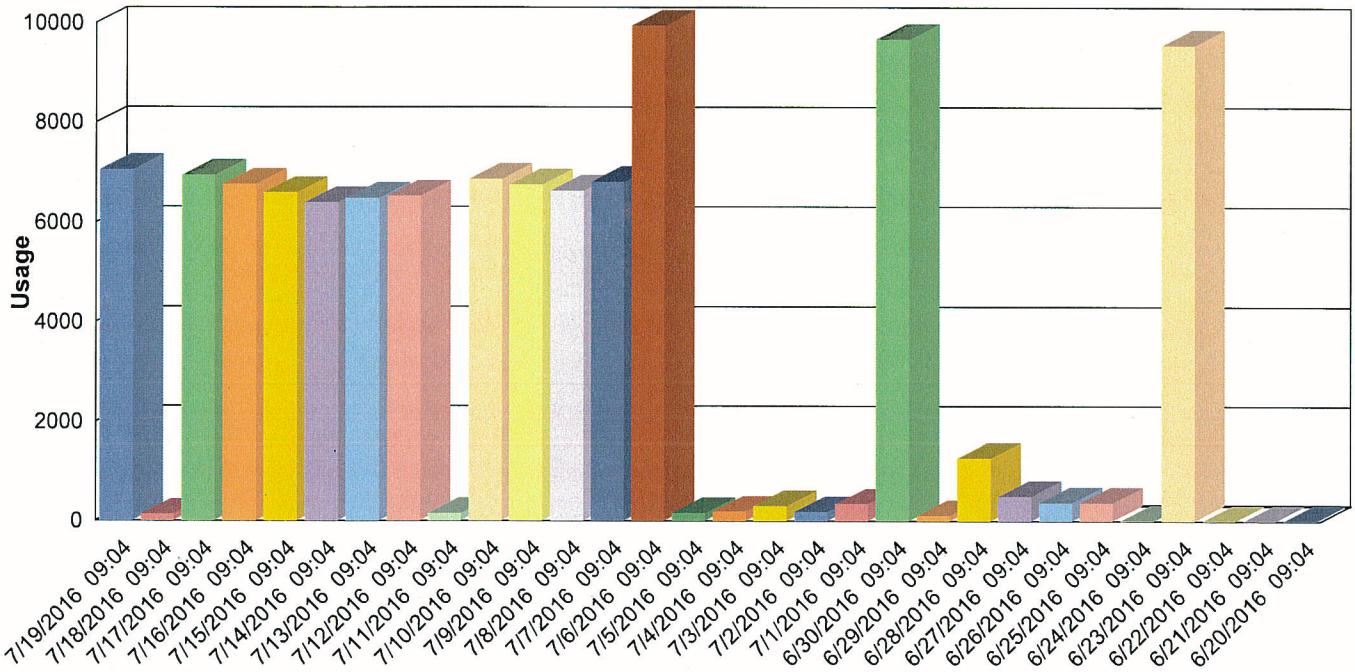
8/16/2016 09:04	672850	140
8/15/2016 09:04	672710	140
8/14/2016 09:04	672570	140
8/13/2016 09:04	672430	5970
8/12/2016 09:04	666460	200
8/11/2016 09:04	666260	4730
8/10/2016 09:04	661530	6470
8/9/2016 09:04	655060	5480
8/8/2016 09:04	649580	5670
8/7/2016 09:04	643910	5910
8/6/2016 09:04	638000	6510
8/5/2016 09:04	631490	5580
8/4/2016 09:04	625910	5410
8/3/2016 09:04	620500	5650
8/2/2016 09:04	614850	6720
8/1/2016 09:04	608130	1290
7/31/2016 09:04	606840	7140
7/30/2016 09:04	599700	6910
7/29/2016 09:04	592790	6820
7/28/2016 09:04	585970	6750
7/27/2016 09:04	579220	7160
7/26/2016 09:04	572060	6930
7/25/2016 09:04	565130	570
7/24/2016 09:04	564560	7020
7/23/2016 09:04	557540	7330
7/22/2016 09:04	550210	6590
7/21/2016 09:04	543620	6520
7/20/2016 09:04	537100	7460

MasterLink Data Collection System

8/17/2016 9:55 am

Data Log Event: 1805352

Data Log Report
From: 6/3/2016 (09:04) To: 8/17/2016 (09:04)
Address:
Customer:
MeterSN: ***Electronic ID:***
Peak Consumption: 9980 Occurred 6/16/2016 (09:04)



Date & Time	Reading	Usage
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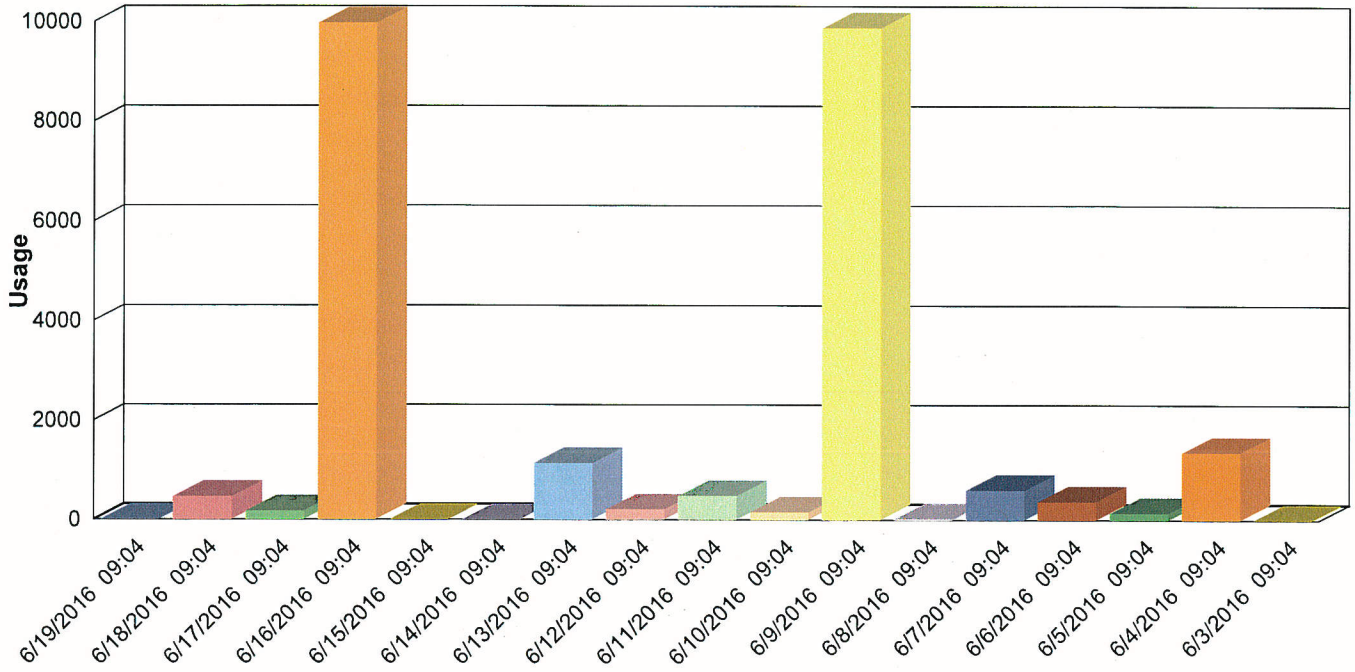
7/17/2016 09:04	522450	6950
7/16/2016 09:04	515500	6770
7/15/2016 09:04	508730	6600
7/14/2016 09:04	502130	6400
7/13/2016 09:04	495730	6490
7/12/2016 09:04	489240	6530
7/11/2016 09:04	482710	150
7/10/2016 09:04	482560	6870
7/9/2016 09:04	475690	6760
7/8/2016 09:04	468930	6640
7/7/2016 09:04	462290	6810
7/6/2016 09:04	455480	9950
7/5/2016 09:04	445530	160
7/4/2016 09:04	445370	190
7/3/2016 09:04	445180	300
7/2/2016 09:04	444880	180
7/1/2016 09:04	444700	340
6/30/2016 09:04	444360	9680
6/29/2016 09:04	434680	110
6/28/2016 09:04	434570	1270
6/27/2016 09:04	433300	500
6/26/2016 09:04	432800	370
6/25/2016 09:04	432430	370
6/24/2016 09:04	432060	10
6/23/2016 09:04	432050	9560
6/22/2016 09:04	422490	0
6/21/2016 09:04	422490	0
6/20/2016 09:04	422490	10

MasterLink Data Collection System

8/17/2016 9:55 am

Data Log Event: 1805352

Data Log Report
From: 6/3/2016 (09:04) To: 8/17/2016 (09:04)
Address:
Customer:
MeterSN: ***Electronic ID:***
Peak Consumption: 9980 Occurred 6/16/2016 (09:04)



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6/15/2016 09:04	411870	0
6/14/2016 09:04	411870	0
6/13/2016 09:04	411870	1140
6/12/2016 09:04	410730	210
6/11/2016 09:04	410520	480
6/10/2016 09:04	410040	150
6/9/2016 09:04	409890	9880
6/8/2016 09:04	400010	20
6/7/2016 09:04	399990	600
6/6/2016 09:04	399390	370
6/5/2016 09:04	399020	140
6/4/2016 09:04	398880	1360
6/3/2016 09:04	397520	0

MasterLink Data Collection System

8/17/2016 9:55 am

Data Log Event: 1805352

Data Log Report
From: 6/3/2016 (09:04) To: 8/17/2016 (09:04)
Address:
Customer:
MeterSN: Electronic ID:
Peak Consumption: 9980 Occurred 6/16/2016 (09:04)

Number of Readings For This Data Log: 76

Average Usage For This Data Log: 3624

Total Usage For This Data Log: 275440

rev 2/2/2011

LEAK NOTICE

Travis County WCID #17

DATE: _____

ADDRESS:

_____

On _____, WCID 17 employee _____ discovered the possibility of a leak in your water line and/or water fixtures. WCID 17 is only responsible for leaks up to and including your meter, but whenever possible we try to notify customers of possible problems. We recommend that you or a plumber inspect your water system to avoid water waste and a high water bill. Thank you.

_____ Left as found.
_____ We turned off your meter.
_____ We turned off your cutoff valve.

Call 266-1111 or if after hours - Emergency Pager 397-9061

COMMENTS:

_____

WCID17 Staff

AVISO DE FUGA DE AGUA

Travis County WCID #17

FECHA: _____

DIRECCIÓN:

_____

En _____, WCID 17 empleado_____ descubró la posibilidad de una fuga de agua en su linea o sus conexiones. WCID #17 es responsible por fugas de agua hasta y incluyendo su medidor, pero nosotros tratamos de avisar al cliente de possible problemas. Nosotros recomendamos que usted o un plomero inspeccióne su sistema de agua para evitar fugas de agua y una cuenta alta. Gracias.

_____ Dejamos como encontramos
_____ Cerramos su medidor
_____ Cerramos su valbula

Llamé 266-1111 o después de horas al numero de emergencia 397-9061.

COMENTARIOS:

_____

WCID17 Personal

TRAVIS COUNTY WATER CONTROL
& IMPROVEMENT DISTRICT 17

3812 ECK LANE • AUSTIN, TEXAS 78734
PHONE (512) 266-1111 • FAX (512) 266-2790

"I COULDN'T POSSIBLY HAVE USED THAT MUCH WATER!!"
(Yes, you could have, and you're not alone)

It's a common statement some customers make when they see their monthly bill. They think the meter must be broken or there must be some other mistake. What's really happening is that they don't have a good idea of where their water is going and vastly underestimate the amount of water they are using, especially on their landscaping. Outdoor watering during the summer months more than **DOUBLES** the average household use, but you can slow this overuse down, save lots of money, and help the environment.

YOUR WATER EFFICIENCY EFFORTS CAN SAVE YOU MONEY AND MAKE A DIFFERENCE CONSERVING LAKE TRAVIS, THE SOURCE OF OUR WATER.

.ere are the most important things you can do:

1. STICK TO THE WATERING SCHEDULE of two days per week or water even less. If everyone supports this community effort, we will meet our goals.

2. BE AWARE OF HOW MUCH WATER YOU ARE USING. This is probably the most important factor in conservation. Look at your water bill and in the summer, keep your usage under 30,000 gallons for a 5/8" meter. In-home us age for two people should be less than 5,000 gallons per month, so if you used 35,000 gallons, 30,000 gallons were probably used on the landscaping or a pool. That's more than normal usage. Watch your bills and compare with what you used last year. If you own an automatic sprinkler system, you could reduce your water use by 10 percent by simply reducing the watering time per zone by a few minutes.

3. If you are using over 50,000 gallons per month, **ask for a free water audit**. The District will send out a licensed irrigator to assist you in your outdoor water planning.

4. **Follow the home water conservation tips** sent out by the District and available on the web at www.wcid17.org. Many other organizations have tips as well. Follow the links to Water IQ, LCRA and the City of Austin.

Poster Displays