



Advanced Environmental Landscape
Design & Consulting, LLC

CSLB C-27 Lic#708716
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WATER MANAGEMENT **WATER ANALYSIS & RECOMMENDATIONS**

Property Name: Fountains at Sierra
Report Dated: 11/06/2017

HIGH PRIORITY RECOMMENDATIONS

High Priority Recommendations & Preventative Maintenance

WEBSITE LOGIN INFORMATION

Visit www.aelandscapedesign.com/nationalcore
Enter Password- watercore

1. Great Job, you have taken care of all your recommendations. There are no recommendations at this time, thank you!

WATER USAGE ANALYSIS SUMMARY

(See individual meter reports for more detailed information)

DOMESTIC

Meter# 2, 2-B: Daily average, projected monthly average, and latest water bill are below budget.

LANDSCAPE

Landscape System:

Irrigation Map: Irrigation Map has been uploaded to site.

Weather Based Irrigation Controller: Hunter I-Core with Solar Sync – installed 11/9/11.

Precision Nozzles: - Installed 08/22/2014. Property has Master Valve and Flow Sensor.

Turf Removal: Usage is Minimal. Removal not recommended.

Fontana Water Company Watering Restrictions are as follows: Please check website for your district's current restrictions.

Controller is in Compliance: Controller is not currently; please see notes below in landscape description.

“Save Water Today, So We Have Water Tomorrow”



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Landscape Usage:

Meter# 1: Daily Average, Projected Monthly and Recent Water bill are all above budget. Property was suffering from an Irrigation leak which has since been repaired. Water bill reflects loss of water during leak. We will continue to monitor and will update after next billing cycle.

Pressure Testing:

Pressure regulator is located on 3" main building inlet on S/W corner of building.

In order to ensure that each resident is receiving optimal water pressure, we have recorded the building psi (pounds per square inch). Desirable water pressure is between 45 and 75 psi. High pressure can cause loud pipes, pinhole leaks in joints, and water hammering; pipes loudly banging inside of walls due to air in the water lines. While low pressure could be a sign of multiple problems; mineral deposits in pipes, leaks, or a faulty pressure regulator.

[Building pressure reading is 50 PSI, pressure is average, no concern.](#)

“Save Water Today, So We Have Water Tomorrow”

Meter Summary Coversheet

Property Name **Fountains at Sierra**

Meter ID	Account Number	Meter Number(s)	Meter Type
1	3-5-164-4724-0-2	60846082	Landscape
2	3-5-913-1455-0-1	60863957 72753402	Domestic
3	3-5-903-1455-5-1	62749683	Fire Service
4	3-5-903-1450-5-1	62479535	Fire Service

Water Meter Inspection and Evaluation

Report prepared by Advanced Environmental Landscape Design & Consulting, LLC

METER ID# 1

Property Name	Fountains at Sierra		
Meter Number	60846082	Meter Type	Landscape
Account Number	3-5-164-4724-0-2	Meter Type	2"

REPORT DATED
11/3/2017

Backflow Details: Designated Backflow Size 2" Pressure Regulator?

LANDSCAPE ANALYSIS

The following calculations are based on the data collected from the physical meter readings and water bills:

	MAWA Analysis
Current ETo (Monthly)	7.21
Monthly Budget	210.42

Allocated S/F (Landscape) 50,300

WBIC (Weather Based Irrigation Controller)

WBIC-MAKE/MODEL Hunter I-Core w/Solar Sync

PRECISION NOZZLES

DROUGHT TOLERANT LANDSCAPE

Projected vs. Actual Water Bill Analysis

		Projected		Most Recent	
Tier 1 @	\$3.98	235	\$934.13	229	\$910.28
Tier 2 @					
Tier 3 @					
Tier 4 @					
Tier 5 @					
WATER CONSUMPTION TOTALS		235	\$934.13	229	\$910.28
Service Charge					\$134.84
PUC Surcharge @ 0.14/hcf					\$15.00
ADJUSTMENT BY WMT					\$0.06
TOTAL USAGE & CHARGES			\$934.13		\$1,060.18

PHYSICAL METER READINGS

Date & Time	Meter Reading	Reading Source	Usage (hcf)	Usage (gallons)	Days in Cycle	Daily Average (hcf)	Hours in Cycle	Hourly Average (hcf)
10/31/2017 12:14 PM	795,240.0	RST	117.40	87,815.20	15	7.827	362	0.324
10/16/2017 10:00 AM	783,500.0	WB	33.20	24,833.60	7	4.743	162	0.205
10/9/2017 4:45 PM	780,180.0	RST	40.70	30,443.60	6	6.783	147	0.277
10/3/2017 1:43 PM	776,110.0	WMT	47.50	35,530.00	12	3.958	291	0.163
9/21/2017 10:00 AM	771,360.0	WMT	106.70	79,811.60	6	17.783	143	0.746
9/15/2017 11:00 AM	760,690.0	WMT	0.90	673.20	1	0.900	25	0.036
9/14/2017 10:00 AM	760,600.0	WB	510.00	381,480.00	31	16.452	744	0.685
8/14/2017 10:00 AM	709,600.0	WB	227.40	170,095.20	14	16.243	332	0.685
7/31/2017 2:58 PM	686,860.0	RST	205.60	153,788.80	14	14.686	340	0.605
7/17/2017 10:00 AM	666,300.0	WB	517.00	386,716.00	66	7.833	1584	0.326
5/12/2017 10:00 AM	614,600.0	WB	170.00	127,160.00	42	4.048	1008	0.169

This report was prepared by Advanced Environmental Landscape. If you have any questions regarding this report please contact us at (909) 980-8300 or water@a landscapedesign.com

Water Meter Inspection and Evaluation

Report prepared by Advanced Environmental Landscape Design & Consulting, LLC

METER ID# 2

Property Name	Fountains at Sierra		
Meter Number	60863957	Meter Type	Domestic
Account Number	3-5-913-1455-0-1	Meter Type	2"

REPORT DATED
11/3/2017

Backflow Details: Designated Backflow Size _____ Pressure Regulator?

DOMESTIC ANALYSIS

Each meter services different types of buildings, water features, etc. The following budgets have been created for each type of coverage below:

Coverage Type	Multi-Unit Building (1 BDR)	Multi-Unit Building (2 BDR)	Pool & Spa POOL/SPA	Water Feature FOUNTAIN	TOTALS
Description					
Units Served	47	46	1180	80	1,353
Budget/Month/Unit	9	14	0.0249	0.0249	
Daily Budget Total	13.91	21.17	0.97	0.07	36.1
Monthly Budget Total	423.00	644.00	29.38	1.99	1,098.4

The following calculations are based on the data collected from the physical meter readings and water bills:

Multiple Meters on Water Account:

Meter Number	Size
Meter A 60863957	2"
Meter B 72753402	2"
Meter C	

Daily Avg. Meter A	3.464
Daily Avg. Meter B	4.100
Daily Avg. Meter C	
Daily Avg Meter Total	7.564
Monthly Avg Meter Total	230.072

Projected vs. Actual Water Bill Analysis

	Projected		Most Recent	
Tier 1 @ \$3.97	230	\$913.10	260	\$1,032.20
Tier 2 @				
Tier 3 @				
Tier 4 @				
Tier 5 @				
WATER CONSUMPTION TOTALS	230	\$913.10	260	\$1,032.20
Service Charge				\$269.00
PUC Surcharge				\$18.67
ADJUSTMENT BY WMT				\$0.06
TOTAL USAGE & CHARGES		\$913.10		\$1,319.93

PHYSICAL METER READINGS

METER A:

Date & Time	Meter Reading	Reading Source	Usage (hcf)	Usage (gallons)	Days in Cycle	Daily Average (hcf)	Hours in Cycle	Hourly Average (hcf)
10/31/2017 10:00 AM	643,300.0	RST	76.20	56,997.60	22	3.464	522	0.146
10/9/2017 4:48 PM	635,680.0	RST	59.80	44,730.40	12	4.983	294	0.203
9/27/2017 10:00 AM	629,700.0	WB	109.00	81,532.00	26	4.192	621	0.176
9/1/2017 1:45 PM	618,800.0	RST	42.00	31,416.00	7	6.000	171	0.246
8/25/2017 10:00 AM	614,600.0	WB	127.50	95,370.00	25	5.100	596	0.214
7/31/2017 2:55 PM	601,850.0	RST	98.50	73,678.00	26	3.788	625	0.158
7/5/2017 1:57 PM	592,000.0	RST	81.00	60,588.00	8	10.125	195	0.415
6/27/2017 10:00 AM	583,900.0	WB	143.00	106,964.00	33	4.333	792	0.181
5/25/2017 10:00 AM	569,600.0	WB	236.00	176,528.00	59	4.000	1416	0.167
3/27/2017 10:00 AM	546,000.0	WB	79.00	59,092.00	18	4.389	427	0.185

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Water Meter Inspection and Evaluation

Report prepared by Advanced Environmental Landscape Design & Consulting, LLC

METER ID# 2

METER B:

Date & Time	Meter Reading	Reading Source	Usage (hcf)	Usage (gallons)	Days in Cycle	Daily Average (hcf)	Hours in Cycle	Hourly Average (hcf)
10/31/2017 12:12 PM	1,348,500.0	RST	90.20	67,469.60	22	4.100	524	0.172
10/9/2017 4:47 PM	1,339,480.0	RST	66.80	49,966.40	12	5.567	294	0.227
9/27/2017 10:00 AM	1,332,800.0	WB	88.00	65,824.00	26	3.385	621	0.142
9/1/2017 1:46 PM	1,324,000.0	RST	16.00	11,968.00	7	2.286	171	0.094
8/25/2017 10:00 AM	1,322,400.0	WB	44.10	32,986.80	25	1.764	596	0.074
7/31/2017 2:55 PM	1,317,990.0	RST	65.90	49,293.20	26	2.535	625	0.105
7/5/2017 1:57 PM	1,311,400.0	RST	25.00	18,700.00	8	3.125	195	0.128
6/27/2017 10:00 AM	1,308,900.0	WB	108.00	80,784.00	33	3.273	792	0.136
5/25/2017 10:00 AM	1,298,100.0	WB	179.00	133,892.00	55	3.255	1320	0.136
3/31/2017 10:50 AM	1,280,200.0	RST	11.00	8,228.00	4	2.750	96	0.115
3/27/2017 10:00 AM	1,279,100.0	WB	55.00	41,140.00	18	3.056	427	0.129
3/9/2017 3:30 PM	1,273,600.0	RST	24.40	18,251.20	8	3.050	198	0.123
3/1/2017 9:41 AM	1,271,160.1	RST	13.60	10,172.80	5	2.720	119	0.114
2/24/2017 10:00 AM	1,269,800.0	WB	66.30	49,592.40	25	2.652	599	0.111
1/30/2017 11:13 AM	1,263,170.1	RST	20.70	15,483.60	5	4.140	121	0.171
1/25/2017 10:00 AM	1,261,100.0	WB	70.00	52,360.00	26	2.692	624	0.112
12/30/2016 10:36 AM	1,254,100.0	RST	8.00	5,984.00	3	2.667	72	0.111
12/27/2016 10:00 AM	1,253,300.0	WB	40.70	30,443.60	26	1.565	625	0.065
12/1/2016 9:05 AM	1,249,230.0	RST	1.30	972.40	2	0.650	47	0.028
11/29/2016 10:00 AM	1,249,100.0	WB	22.20	16,605.60	28	0.793	674	0.033
11/1/2016 8:52 AM	1,246,880.0	RST	11.80	8,826.40	4	2.950	94	0.126
10/28/2016 10:00 AM	1,245,700.0	WB	84.10	62,906.80	25	3.364	597	0.141
10/3/2016 1:21 PM	1,237,290.2	RST	27.90	20,869.20	5	5.580	123	0.227
9/28/2016 10:00 AM	1,234,500.0	WB	113.90	85,197.20	27	4.219	649	0.176
9/1/2016 9:33 AM	1,223,110.0	RST	24.10	18,026.80	6	4.017	143	0.169
8/26/2016 10:00 AM	1,220,700.0	WB	92.00	68,816.00	25	3.680	602	0.153
8/1/2016 8:53 AM	1,211,500.0	RST	6.80	5,086.40	27	0.252	648	0.010
7/5/2016 8:50 AM	1,210,820.2	RST	5.20	3,889.60	8	0.650	190	0.027
6/27/2016 10:00 AM	1,210,300.0	WB	59.10	44,206.80	26	2.273	626	0.094
6/1/2016 8:06 AM	1,204,390.4	RST	24.90	18,625.20	6	4.150	142	0.175
5/26/2016 10:00 AM	1,201,900.0	WB	88.20	65,973.60	24	3.675	577	0.153
5/2/2016 9:13 AM	1,193,080.1	RST	17.80	13,314.40	5	3.560	119	0.150
4/27/2016 10:00 AM	1,191,300.0	WB	102.90	76,969.20	26	3.958	624	0.165
4/1/2016 10:00 AM	1,181,010.3	RST	632.40	473,035.20	7	90.343	168	3.764
3/25/2016 10:00 AM	1,117,770.0	WB	-509.71	-381,263.08	23	-22.161	553	-0.922
3/2/2016 9:35 AM	1,168,740.7	RST	149.41	111,758.68	6	24.902	143	1.045
2/25/2016 10:00 AM	1,153,800.0	WB	0.00	0.00	29	0.000	696	0.000
1/27/2016 10:00 AM	1,153,800.0	WB	92.59	69,257.32	23	4.026	546	0.170
1/4/2016 4:09 PM	1,144,540.6	RST	32.41	24,242.68	6	5.402	150	0.216

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Water Meter Inspection and Evaluation

Report prepared by Advanced Environmental Landscape Design & Consulting, LL

METER ID# 3

Property Name	Fountains at Sierra		
Meter Number	62749683	Meter Type	Fire Service
Account Number	3-5-903-1455-5-1	Meter Type	

REPORT DATED
11/3/2017

Backflow Details: Designated Backflow Size _____ Pressure Regulator?

DOMESTIC ANALYSIS

Each meter services different types of buildings, water features, etc. The following budgets have been created for each type of coverage below:

Coverage Type	Fire Service				
Description	Fire Service				TOTALS
Units Serviced					0
Budget/Month/Unit					
Daily Budget Total					0.0
Monthly Budget Total					0.0

The following calculations are based on the data collected from the physical meter readings and water bills:

Physical Daily-Average	0.000	Projected vs. Actual Water Bill Analysis			
		Projected		Most Recent	
Physical Monthly-Average	0.00	Tier 1 @	0	0	0
		Tier 2 @	0	0	0
		Tier 3 @	0	0	0
		Tier 4 @	0	0	0
		Tier 5 @			
		WATER CONSUMPTION TOTALS	0	\$0.00	0 \$0.00
		Service Charge			\$90.32
		PUC SURCHARGE@.014/hcf			\$1.30
		TOTAL USAGE & CHARGES		\$0.00	\$91.62

PHYSICAL METER READINGS

Date & Time	Meter Reading	Reading Source	Usage (hcf)	Usage (gallons)	Days in Cycle	Daily Average (hcf)	Hours in Cycle	Hourly Average (hcf)
11/1/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
10/1/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
9/1/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
6/1/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
5/1/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
4/1/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
3/1/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
2/1/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
1/1/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
12/1/2016 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A

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Water Meter Inspection and Evaluation

Report prepared by Advanced Environmental Landscape Design & Consulting, LL

METER ID# 4

Property Name	Fountains at Sierra		
Meter Number	62479535	Meter Type	Fire Service
Account Number	3-5-903-1450-5-1	Meter Type	

REPORT DATED
11/3/2017

Backflow Details: Designated Backflow Size _____ Pressure Regulator?

DOMESTIC ANALYSIS

Each meter services different types of buildings, water features, etc. The following budgets have been created for each type of coverage below:

Coverage Type	Fire Service				
Description	Fire Service				TOTALS
Units Serviced					0
Budget/Month/Unit					
Daily Budget Total					0.0
Monthly Budget Total					0.0

The following calculations are based on the data collected from the physical meter readings and water bills:

		Projected vs. Actual Water Bill Analysis			
		Projected		Most Recent	
Physical Daily-Average	0.000	Tier 1 @	0	0	0
Physical Monthly-Average	0.00	Tier 2 @	0	0	0
		Tier 3 @	0	0	0
		Tier 4 @	0	0	0
		Tier 5 @			
		WATER CONSUMPTION TOTALS	0	\$0.00	0 \$0.00
		Service Charge			\$90.32
		PUC SURCHARGE @.14			\$1.30
		TOTAL USAGE & CHARGES		\$0.00	\$91.62

PHYSICAL METER READINGS

Date & Time	Meter Reading	Reading Source	Usage (hcf)	Usage (gallons)	Days in Cycle	Daily Average (hcf)	Hours in Cycle	Hourly Average (hcf)
11/1/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
10/1/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
9/1/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
6/1/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
5/1/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
4/1/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
3/1/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
2/1/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
1/1/2017 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A
12/1/2016 10:00 AM	0.0	WB	0.00	0.00	N/A	N/A	N/A	N/A

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