



# Agenda

CITY CLERK'S OFFICE

DATE 5/3/16 TIME 2:30pm

SERVED BY Christine Chavez

RECEIVED BY [Signature]

## SANTA FE WATER CONSERVATION COMMITTEE MEETING

CITY HALL - 200 LINCOLN AVE.

CITY COUNCILORS' CONFERENCE ROOM

May 10, 2016

4:00 PM TO 6:00 PM

1. CALL TO ORDER
2. ROLL CALL
3. APPROVAL OF AGENDA
4. APPROVAL OF MINUTES TUESDAY APRIL 12, 2016 WATER CONSERVATION COMMITTEE MEETING

### ACTION ITEMS:

No Action Items

### DISCUSSION ITEMS:

5. PARKS STUDY (Christine Chavez, Robert Wood, 15 minutes)
6. CONVERSION OF CONSERVATION LITERATURE TO SPANISH (Christine Chavez, 15 minutes)
7. DISCUSSION OF WATER CONSERVATION PROGRAM (Christine Chavez, 20 minutes)

### INFORMATIONAL ITEMS:

8. 2015 ANNUAL WATER REPORT (Christine Chavez, 10 minutes)
9. GROUP REPORTS FROM WATER CONSERVATION COMMITTEE INITIATIVES: (Councilor Ives, 35 minutes)
  - A. GROUP #5- WATER SYSTEM MAP
  - B. GROUP #1- TREATED WASTE WATER AS DRINKING WATER SOURCE. (5 Minutes)
  - C. GROUP #2- WATER CONSERVATION EDUCATION/OUTREACH (5 minutes)
  - D. GROUP #3- WATER CONSERVATION CODES, ORDINANCES & REGULATIONS – LEGISLATIVE UPDATE (5 minutes)
10. DEMONSTRATION OF NEW DRINKING WATER MODEL (Christine Chavez, 15 minutes)
11. SOURCE OF SUPPLY – DROUGHT UPDATE

### MATTERS FROM STAFF:

- Update on Water Conservation Program activities (10 minutes)

### MATTERS FROM PUBLIC:

### MATTERS FROM COMMITTEE:

### NEXT MEETING – TUESDAY June 14<sup>th</sup>, 2016:

CAPTIONS: JUNE 1, 2016 @ 3 PM.

PACKET MATERIAL: JUNE 3, 2016 @ 3 PM.

### ITEMS FOR NEXT AGENDA:

Update on water reuse project – Bill Schneider (June Meeting)

### ADJOURN.

Persons with disabilities in need of accommodations, contact the City Clerk's office at 955-6520, five (5) working days prior to meeting date.

WATER CONSERVATION COMMITTEE  
INDEX  
APRIL 12, 2016

|                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                  |          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Cover Page                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                  | Page 0   |
| <b>Roll Call/Call to Order</b>                                                                                                                                                 | Lisa Randall, Acting Chair, called the Water Conservation Committee Meeting to order at 4:05 pm in the City Councilor's Conference Room. A quorum is reflected in roll call.                                                                                                                     | Page 1   |
| Approval of Agenda                                                                                                                                                             | <i>Mr. Pushard moved to approve the agenda as presented, second by Mr. Roth, motion carried by unanimous voice vote.</i>                                                                                                                                                                         | Page 1   |
| Approval of Minutes, February 9, 2016 and March 8, 2016                                                                                                                        | <i>Mr. Pushard moved to approve the minutes of February 9, 2016 as presented, second by Mr. Michael, motion carried by unanimous voice vote.</i><br><br><i>Mr. Roth moved to approve the minutes of March 8, 2016 as presented, second by Mr. Wyman, motion carried by unanimous voice vote.</i> | Page 1-2 |
| Action Items<br>- A Resolution amending Resolution No. 2008-40 regarding membership of the Santa Fe Water Conservation Committee to include term limits for committee members. | <i>Mr. Pushard moved to approve the recommendation of Resolution amending Resolution No. 2008-40 regarding membership of the Santa Fe Water Conservation Committee to include term limits for committee members, second by Mr. Wyman, motion carried by unanimous voice vote.</i>                | Page 2   |
| Discussion Items:<br>- Draft GPCD Analysis<br>- Water System Map<br>- Implementation of Strategic Marketing Plan<br>- Discussion of Water Conservation Program                 | Informational: No formal action. All discussion pieces included in the meeting packet. Note: GPCD Analysis is no longer in draft status.                                                                                                                                                         | Page 2-5 |
| Change of Chairmanship – Ms. Randall departed at 5:00 pm                                                                                                                       | <i>Mr. Roth moved to assign Mr. Pushard as Acting Chair in her departure at 5:00 pm, second by Mr. Wyman, motion carried by unanimous voice vote.</i>                                                                                                                                            |          |
| Informational Items:<br>Group #1, 2, 3 & 5                                                                                                                                     | Informational                                                                                                                                                                                                                                                                                    | Page 5-7 |
| Source of Supply – Drought Update                                                                                                                                              | Informational – report in meeting packet.                                                                                                                                                                                                                                                        | Page 7   |
| Matters from Staff<br>Update on Water Conservation Program Activities                                                                                                          | Informational                                                                                                                                                                                                                                                                                    | Page 7   |
| Matters from Committee                                                                                                                                                         | Informational                                                                                                                                                                                                                                                                                    | Page 7   |
| Matters from the Public                                                                                                                                                        | Informational                                                                                                                                                                                                                                                                                    | Page 7   |
| Next Meeting                                                                                                                                                                   | Tuesday, May 10, 2016                                                                                                                                                                                                                                                                            | Page 7   |
| Adjournment and signature                                                                                                                                                      | Meeting was adjourned at 6:10 pm                                                                                                                                                                                                                                                                 | Page 8   |

CITY OF SANTA FE

# WATER CONSERVATION COMMITTEE

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## MINUTES

Fran Lucero, Stenographer

4/12/2016

DRAFT UNTIL APPROVED

**SANTA FE WATER CONSERVATION COMMITTEE MEETING  
CITY HALL - 200 LINCOLN AVE.  
CITY COUNCILORS' CONFERENCE ROOM**

APRIL 12, 2016  
4:00 PM TO 6:10 PM

**MINUTES**

**1. CALL TO ORDER**

Lisa Randall, Acting Chair for the Water Conservation Committee called the meeting to order at 4:05 pm in the City Councilors' Conference Room. A quorum is reflected in roll call.

**2. ROLL CALL**

Present:

Lisa Randall, Vice Chair – Acting Chair  
Doug Pushard  
Tim Michael  
Stephen Wiman  
Bill Roth  
Giselle Piburn

Not Present:

Councilor Peter Ives, Chair, Excused

Staff Present:

Christine Chavez, Water Conservation Department Manager  
Jesse Guillen, Legislative Liaison, City of Santa Fe  
Robert Wood, Water Conservation Specialist Senior

Others Present:

Andy Otto, Santa Fe Watershed Association  
Aaron Kaufman, Prospective Member, Audience  
Fran Lucero, Stenographer

**3. APPROVAL OF AGENDA**

*Mr. Pushard moved to approve the agenda as presented, second by Mr. Roth, motion carried by unanimous voice vote.*

**4. APPROVAL OF MINUTES – FEBRUARY 9, 2016 AND MARCH 8, 2016**

**No changes from staff.**

*Mr. Pushard moved to approve the minutes of February 9, 2016 as presented, second by Mr. Michael, motion carried by unanimous voice vote.*

*Mr. Roth moved to approve the minutes of March 8, 2016 as presented, second by Mr. Wyman, motion carried by unanimous voice vote.*

#### **ACTION ITEMS:**

**5. A RESOLUTION AMENDING RESOLUTION NO. 2008-40 REGARDING MEMBERSHIP OF THE SANTA FE WATER CONSERVATION COMMITTEE TO INCLUDE TERM LIMITS FOR COMMITTEEMEMBERS**

The Resolution was sent to PUC and was approved at that level. It will now go through Finance Committee and City Council. Resolution wording changes recommended by the Water conservation Committee have been incorporated. One of the Whereas specifies: “on March 8, 2016 the Water Conservation Committee approved recommendation to the Governing Body that term limits be imposed for members of the Water Conservation Committee”. The Committee shall be appointed by the Mayor and consist of ten members not including the Chair. The recommendation is to have two – 2-year terms. Terms are spelled out in the resolution for the five members who have served the longest uninterrupted term.

*Mr. Pushard moved to approve the recommendation of Resolution amending Resolution No. 2008-40 regarding membership of the Santa Fe Water Conservation Committee to include term limits for committee members, second by Mr. Wyman, motion carried by unanimous voice vote.*

#### **DISCUSSION ITEMS**

**6. DRAFT GPCD ANALYSIS**

Ms. Chavez sent the analysis to each member by e-mail for review prior to this meeting. Ms. Chavez also asked if there were any questions or comments on this topic and reiterated that she invites discussion prior to the meeting on any subject.

Mr. Hook included the GPCD Analysis in final form. The 2015 GPCD Calculator reflects the City of Santa Fe Water Division customer’s was 90 gallons per capita per day. The previous year, the NMOSE methodology calculation for the City of Santa Fe was 95 GPCD. In comparison to other cities in the southwest, the City’s GPCD is one of the lowest.

Mr. Wyman: There is a comment that the city has achieved lower water consumption through public outreach, ordinances requiring customers to comply with water conservation conditions and the utilization of incentives. Mr. Wyman asked if there is a way to increase this number. Ms. Chavez said that when Mr. Hook presented to PUC they did not look at precipitation. Ms. Chavez said she feels that at some point they need to show how consumption affects precipitation and publish possibly through the website. Mr. Wyman said it sets the stage for an increase the way precipitation looks right now. Ms. Chavez said that what is good about this methodology is it provides a good comparison with other utilities.

Ms. Chavez said that future discussion could be scheduled to talk about the GPCD and the flaws. She stated that when they start to break up the family classes it is a little misleading. There are assumptions as far as the water use in the classes.

Mr. Pushard would like to spend time on the spreadsheet and possibly make recommendations back to OSE as a committee. Updates were made last year to OSE and he feels they would be receptive to suggestions from the Water Conservation Committee.

Mr. Michael asked if they want to make recommendations to OSE or stay with input strictly to the City of Santa Fe. Ms. Chavez feels that both are important and it would be good if there was a place to insert precipitation.

Mr. Pushard said that in the past the Water Conservation Department was listing two numbers and it was very confusing; we as a committee should review and understand what is listed before listing the two numbers. Mr. Pushard also supports more accurate information.

Ms. Chavez said that if at all possible a special meeting can be scheduled for GPCD.

Ms. Chavez showed the committee on the overhead the NMOSE GPCD Calculator reflecting the numbers and directed her comments to the monthly analysis of GPCD. Single family reflects numbers you would expect to see, when you go to multi-family, you would expect pretty consistent consumption. If you would see a peak it would be in the summer months and this graph reflects the peak in December. This is reflecting incorrect estimates when the meters were going in November. High usage in December is a make-up of usage rates.

Mr. Wood said that in some cases the meters could not all be read. In other instances the fire fly had failed, the estimates were from the old meters. New meters will be more accurate and provide warnings on usage.

Ms. Chavez noted that you can never have non-revenue water and December reflects negative non-revenue water. The first quarter will need to be reviewed to assure that the readings are accurate. The new meters will accurately measure and reflect the use of water. Ms. Chavez said that in the second phase they will be working on the customer portal.

Ms. Chavez informed the committee that Mr. Schiavo will attend the August meeting and demonstrate the customer portal. Ms. Chavez is happy to answer any questions off line. There is a lot of work to be done to get this matter corrected.

## 7. WATER SYSTEM MAP

Plan is to have the map be consistent. (Map shown on overhead and is published on the website. Ms. Chavez welcomes comments from the Water Conservation Committee members.) It is located under water supply sources. Mr. Wyman would like to see something on San Juan Chama on the map; it won't be possible on this scale on the capacity of the reservoirs. We need to compromise and be practical on what we can show. Ms. Chavez and Mr. Wyman will continue to work on the map and feels that it will be completed in phases, we consider this Phase I.

8. IMPLEMENTATION OF STRATEGIC MARKETING PLAN (Included in packet).

As a follow up to the request from the committee, Ms. Chavez was asked to bring this topic back. Ms. Chavez noted that Lynn's contract has been approved and she will provide us with the added manpower to move this plan forward.

Mr. Pushard said that the Goal was to reduce GPCD by 9%. Mr. Pushard also provided some comparative statistics on other states and countries. Our old goal used to be to reduce and now we use the word maintain.

Ms. Chavez noted that this document has now gone through committee and it has been approved. It now belongs to the WCC and we should now be able to change and reflect the accurate verbiage. Ms. Chavez asked that Mr. Pushard send his suggested changes to her by e-mail. This document is now owned by the Water Conservation Committee. If there are any inconsistencies, document and send to Ms. Chavez. Ms. Chavez said they are using this document as it reads and if there are edits it would be good to have a clean document before Lynn comes in. A corrected document will be brought back to the next meeting.

Mr. Wyman would like to see some demonstration homes that pertain to this application in a home. There is also a comment on 50% loss due to inefficiencies. What can we do about that?

Mr. Michael said he would also like to reach a point where the number is more realistic. Mr. Wood said now that they have conserve-a-track they should be able to get data quicker and more efficient. Ms. Chavez said they could also use the GPCD numbers from Santa Fe. Ms. Chavez also noted that this document is an internal document and the committee can work to have it reflect the best working data.

***Mr. Roth moved to assign Mr. Pushard as Acting Chair in her departure at 5:00 pm, second by Mr. Wyman, motion carried by unanimous voice vote.***

Mr. Pushard said that on the "how," "is there information on the rain harvesting and can you change the rebate in a quicker fashion and could it be done this summer." Ms. Chavez said that on this topic there is a draft that will come to the WCC for review. Once Ms. Katherine Mortimer has her documents and they are approved we can implement. New rebates with restricted use will be rolled out on May 1<sup>st</sup>.

Mr. Pushard: On the "how to" have you thought about how you will change the marketing collateral to Spanish? Ms. Chavez said that there are some documents translated. She said that the QWELL documents are one priority and possibly working with the Santa Fe Community College to get this done and research funding. Ms. Chavez asked if the WCC members have specific documents or priorities for them to be translated. Brochures are also a priority and the State of New Mexico would need to take responsibility for this. Ms. Chavez said that a translator with water verbiage knowledge would be needed and recommendations are welcomed.

Mr. Otto said that at the Watershed they had a proposal for translation and possibly could assist with this request. The individual he would recommend has a PhD in Water Science. Mr. Otto and Ms. Chavez will continue communications on this item.

#### 9. DISCUSSION OF WATER CONSERVATION PROGRAM

Ms. Chavez noted two comments on items that she would like help from the WCC members. Thank you for the help that the members have given her away from meetings. We are pushing out the rebate program in May. Ms. Chavez asked the committee members on next steps for the WERS and whole house rebate. How would we handle that for existing construction and remodeling? The question is if staff could get certified and if they would do the actual WERS test in the households. With regards to Irrigation Rebate, it is still being reviewed. It is hard to change a Resolution and it would be helpful to tweak with what has already been stated. There are few cities that are working with a company called Sky Drop who bring in a team; they do an audit and program and install their AP, provide technical assistance and maintain for the life of the smart meter. The cost per unit is \$350 but the city rebate is \$375. The data that they gather is positive; they are based out of California but have done projects in Roswell and a few other cities in NM. They provided information to the Water Conservation Manager that will be shared with the Water Conservation Committee. Also, on the audit component, they could go in and do it as QWELL certified, the customer wouldn't pay anything.

Ms. Chavez is trying to develop a more extensive and comprehensive educational program. The goal is to provide this to the teachers by the spring. Ms. Chavez asked for help to identify partners who have the same goal and ideas on how to incentivize the teachers. Mr. Roth suggested the School of Sustainability where students could mentor other kids. Children get excited and they develop a passion that is infectious with the parents. Ms. Chavez will reach out to Ms. Randall for her support and ideas.

Mr. Michael asked who is "we" when you talk about the whole house rebate. Ms. Chavez said that the "we" is staff. We would need to know how many applications we are getting in, who would do the audit and the cost. Mr. Pushard will contact Ms. Chavez to discuss this individually and bring back additional information to the WCC members.

Ms. Piburn welcomes a document on this educational opportunity that she can share with educators. The WCC members would all like to receive a document of this sort for distribution.

### **INFORMATIONAL ITEMS**

#### **8. Group Reports from Water Conservation Committee Initiatives**

- a. Group #5 – Water System Map  
Reported above.
- b. Group #1 – Treated Waste Water as Drinking Water Source  
Stephen Wyman: Memo was distributed to the members from Mr. Schneider where they are asking for more money. The question is it because they fell short



on budget? Ms. Chavez said that she will need to get direct information from Mr. Schneider and she will share with the WCC members when the information is available. Mr. Wyman will work on this topic and report at next month meeting.

- c. Group #2 – Water Conservation Education/Outreach – Tim Michael  
Mr. Michael was invited and participated in an interview with Que Suave Radio with the City Councilor where they provided good information to the public on Water Conservation. Ms. Chavez said that they will prepare an agenda to assure that the items they would like to cover are addressed during the radio show. She welcomes information from the WCC members and would like to provide more information to the public during that radio show. Also, if any WCC members would like to be on the show she accepts the offer.
- d. Group #3 - Water Conservation Codes, Ordinances and Regulations – Legislative Doug Pushard – Report included in packet (Exhibit A). Items that were approved and signed by the Governor and received funding are included in report. EPA user study was released yesterday and likely to be published in the spring of 2016. It will also include outdoor watering. Ms. Chavez will request a copy of that study. Mr. Pushard did attend a conference in San Francisco, CA to promote WERS. The contacts made were very positive and literature was shared with the WCC members and to be retained in the Water Conservation office. There is a list of the presentations and links will be shared with staff once they are received for informational purposes. A very different approach from what we are doing in a positive direction. Mr. Pushard made a presentation to an alternative water group; information from this meeting will be sent to Ms. Chavez. Another contact on the alternative water group – there is a College Water Efficiency Group – information will be shared also with Ms. Randall and Ms. Chavez. They are doing water savings on campuses and sharing data with different schools on how the program is doing. This would be worthy of researching to see what is working and not working. Mr. Pushard will again provide a link for contact to this group. Atlanta has created a demonstration site on reused water (total water) which we could look at as a role model and it would be nice to do something like that. This is a big tourist attraction and it could help secure funding.

Mr. Pushard did meet with the QWELL representative who was an attendee at this conference. They are working at incorporating drip in to the training and it won't lengthen the training term.

Mr. Pushard noted that they do a grey water class; they have agreed that training would need to be done in California. It would be good for staff to attend if at all possible.

WERS Training was done and it was a full class. The city can become certified to do their own WERS inspections. Next class is scheduled for June 14-15-16, 2016 at the Santa Fe Community College. First inspection will be done with a

customer tomorrow showing them their numbers and what they should be and how they can change it.

9. Source of Supply Drought Update, Included in Packet – No questions, informational report.

### **MATTERS FROM STAFF**

#### **Update On Water Conservation Program Activities**

- Ms. Chavez – Earth Day Booth – April 22, 2016 at the Genoveva Chavez Center. They will be signing people up for the Mayor's Water Challenge – Ms. Chavez will send the pledge to the WCC members. We want to rank the City of Santa Fe as high as possible.
- There is a great deal of school presentations this month in Santa Fe that staff will attend. Ms. Chavez and Mr. Wood will attend the water festival in Los Alamos.
- The Water Conservation Department is bringing a Water Enforcement Officer on staff.
- Mr. Aaron Kaufman's paper work has been submitted to the Mayor as a future member, looking forward to him being on board very soon.
- Proposed Ad for Water Conservation openings was shared with the committee members for review. This Ad will be published in the Newspaper and will be sent to the WCC members to distribute to any contacts they have. There are three positions available. The five different areas of expertise are defined in the resolution; the goal is to attract individuals with commitment, diversity and willing to be a part of the process. It was reiterated that the full membership consists of 10 members not including the Chair.

### **MATTERS FROM THE PUBLIC**

Mr. Otto will send a list of programs to Ms. Chavez for information and collaboration.

### **MATTERS FROM COMMITTEE**

Monte del Sol Charter School Presentation – April 26, 27, 28 from 9 am – 4 pm, WCC members invited.

### **NEXT MEETING – TUESDAY, MAY 10, 2016**

#### **ITEMS FOR NEXT AGENDA**

Update on Water Re-use Project. Bill Schneider (June Meeting)

Nick Schiavo to attend August Meeting, Customer Portal Discussion

QWELL documents to be translated in to Spanish: Ms. Chavez will bring documents to prioritize at next meeting.

**ADJOURN**

There being no further business to come before the Water Conservation Committee, the meeting was adjourned at 6:10 PM

**Signature Page:**

\_\_\_\_\_  
Lisa Randall, Acting Chair

  
\_\_\_\_\_  
Fran Lucero, Stenographer

\_\_\_\_\_  
Doug Pushard, Acting Chair

# City of Santa Fe, New Mexico

## memo

**DATE:** May 4<sup>th</sup>, 2016

**TO:** Nicholas Schiavo, Public Utilities & Water Division Director \_\_\_\_\_

**VIA:** Rick Carpenter, Acting Water Division Director, Water Resources & Conservation Manager \_\_\_\_\_  
Christine Chavez, Water Conservation Manager *CC*

**FROM:** Robert Wood, Water Conservation Specialist SR *RW*

**RE:** Parks water use evaluation.

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### SUMMARY:

Water Conservation conducted a use study to determine the results of recent irrigation upgrades within local parks.

Projects were selected using the parks from a recent 2008 Bond Parks Irrigation Audit study.

### RESULTS:

In general, the results show a decline in overall water usage as indicated by the trend line from 2002 to 2015.

Factors affecting the trend line:

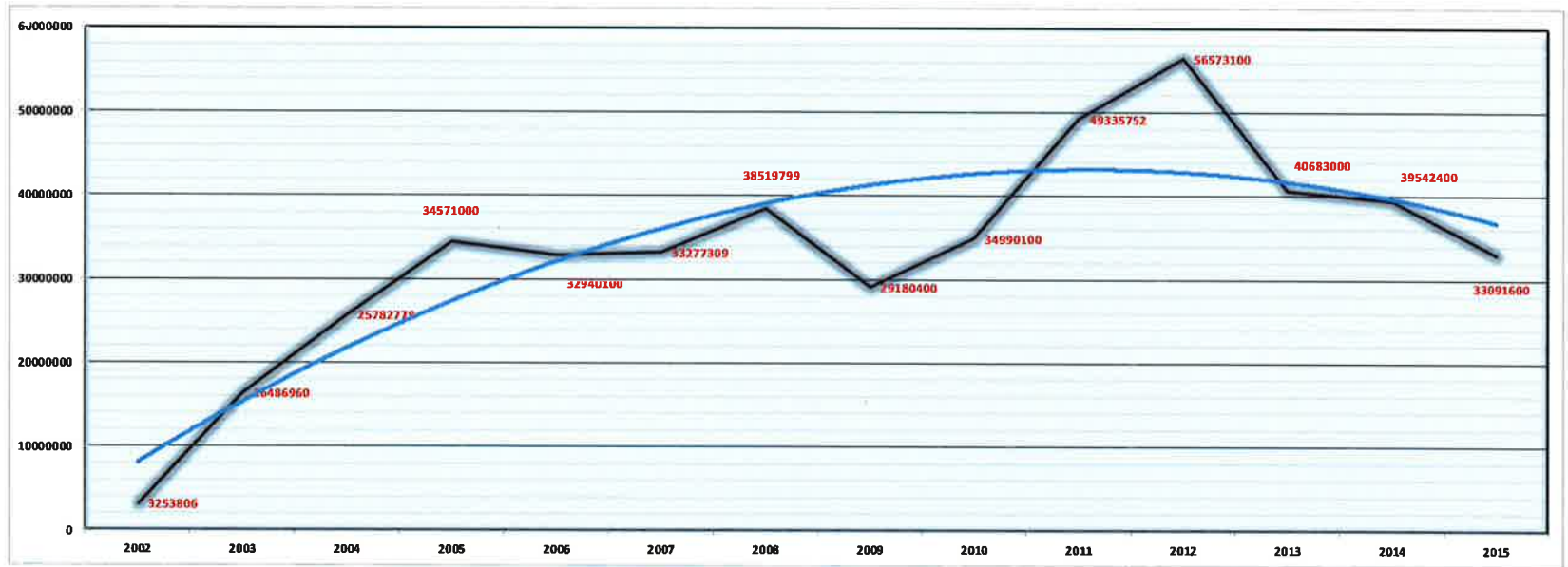
1. Several parks were added or space was upsized during the time frame indicated, notes are referenced within the worksheets.
2. Several parks had major leaks that affected usage during specific years.
3. Several parks had meter failures or system failures that affected usage during specific years.
4. Construction activity affected usage within several parks.
5. Yearly precipitation is not factored into results.

# Parks Division Water Use Study

Represented sample: 30 Parks / 2002 - 2015

YEAR

|      |          |
|------|----------|
| 2002 | 3253806  |
| 2003 | 16486960 |
| 2004 | 25782778 |
| 2005 | 34571000 |
| 2006 | 32940100 |
| 2007 | 33277309 |
| 2008 | 38519799 |
| 2009 | 29180400 |
| 2010 | 34990100 |
| 2011 | 49335752 |
| 2012 | 56573100 |
| 2013 | 40683000 |
| 2014 | 39542400 |
| 2015 | 33091600 |



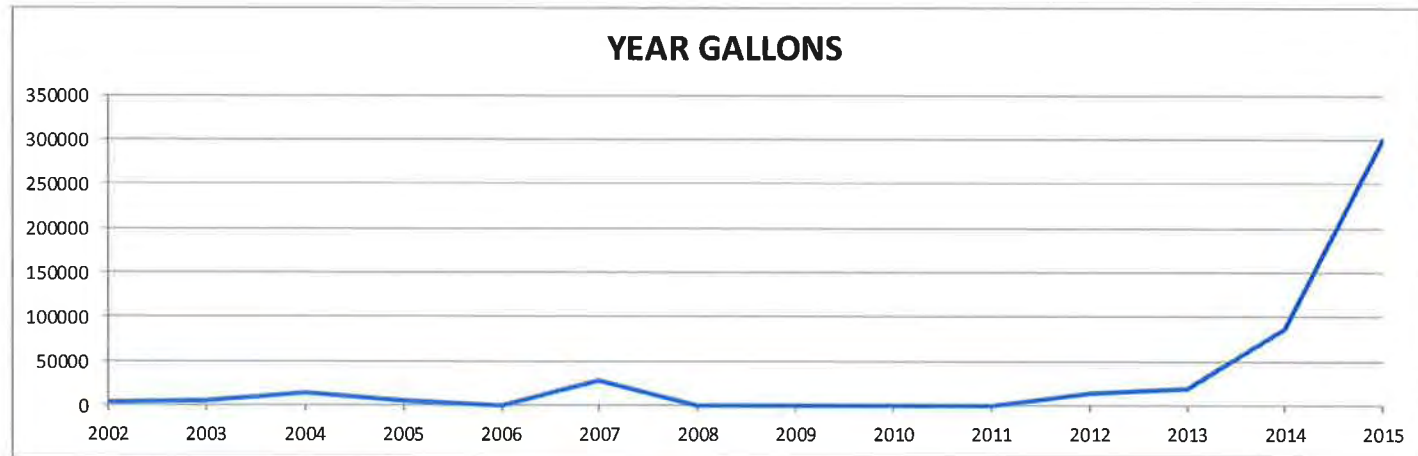
Actual Use – Black line

Trend line – Blue Line

Adam Gabriel Armijo  
1404 CERRO GORDO RD IRR

Account # 366926 Meter # 9919926 Size 2" Service Address 32254

|      | JAN | FEB  | MAR | APR   | MAY    | JUNE  | JULY  | AUG   | SEPT  | OCT   | NOV   | DEC | TOTAL YEAR GALLON |
|------|-----|------|-----|-------|--------|-------|-------|-------|-------|-------|-------|-----|-------------------|
| 2002 | 100 | 2000 | 0   | 0     | 0      | 300   | 400   | 900   | 0     | 6     | 0     | 0   | 3706              |
| 2003 | 0   | 0    | 0   | 300   | 300    | 400   | 600   | 4300  | 0     | 0     | 0     | 0   | 5900              |
| 2004 | 0   | 0    | 500 | 14300 | 0      | 100   | 0     | 0     | 100   | 0     | 0     | 0   | 15000             |
| 2005 | 0   | 0    | 0   | 800   | 300    | 600   | 3900  | 0     | 0     | 0     | 0     | 0   | 5600              |
| 2006 | 0   | 0    | 0   | 0     | 0      | 0     | 0     | 0     | 0     | 0     | 0     | 0   | 0                 |
| 2007 | 0   | 0    | 800 | 27900 | 0      | 0     | 0     | 0     | 0     | 0     | 100   | 0   | 28800             |
| 2008 | 0   | 0    | 100 | 0     | 0      | 0     | 0     | 0     | 0     | 0     | 0     | 0   | 100               |
| 2009 | 0   | 0    | 0   | 0     | 0      | 0     | 0     | 0     | 200   | 0     | 0     | 0   | 200               |
| 2010 | 0   | 0    | 0   | 0     | 0      | 0     | 0     | 0     | 0     | 0     | 0     | 0   | 0                 |
| 2011 | 0   | 0    | 0   | 0     | 0      | 0     | 0     | 0     | 0     | 0     | 0     | 0   | 0                 |
| 2012 | 0   | 0    | 0   | 1300  | 100    | 0     | 0     | 0     | 0     | 0     | 12500 | 0   | 13900             |
| 2013 | 0   | 0    | 0   | 0     | 4600   | 2500  | 3100  | 2500  | 2400  | 3100  | 1200  | 0   | 19400             |
| 2014 | 0   | 0    | 0   | 0     | 3100   | 18200 | 19500 | 1700  | 19400 | 20900 | 3000  | 0   | 85800             |
| 2015 | 0   | 0    | 0   | 90700 | 110800 | 15400 | 17300 | 19500 | 16600 | 29800 | 0     | 0   | 300100            |

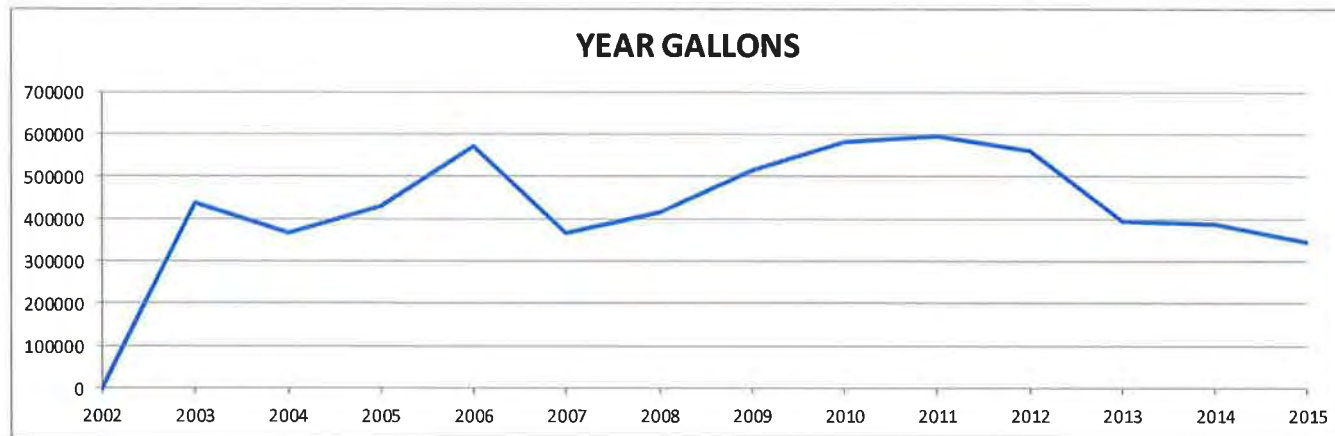


Additional plantings added 2012/2013 - Trees.

Cathedral

|           |         |        |                 |
|-----------|---------|--------|-----------------|
| Account # | Meter # | Size   | Service Address |
| 359662    | 9945793 | 1 1/2" | 31970           |

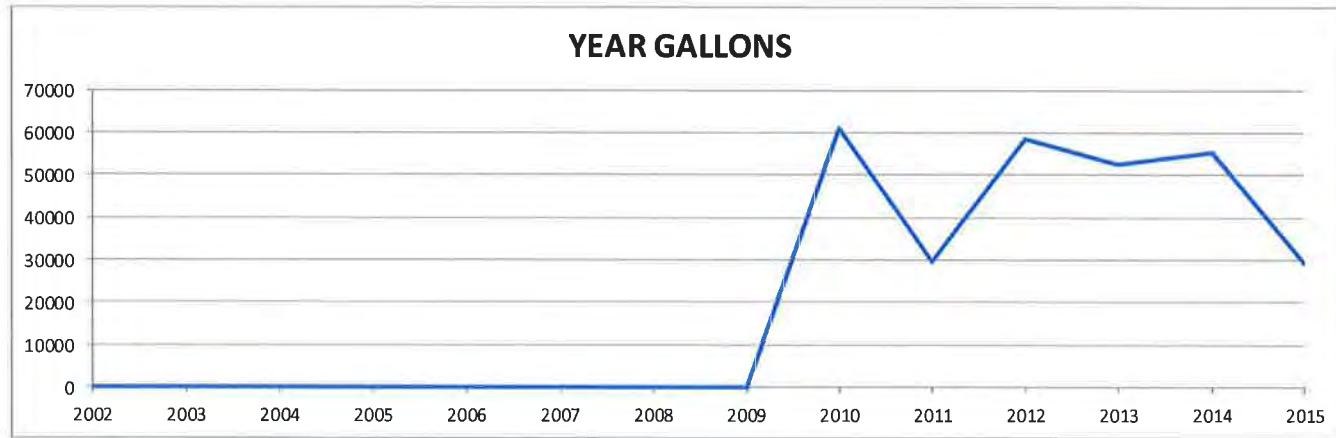
| YEAR | JAN | FEB | MAR | APR  | MAY    | JUNE   | JULY   | AUG    | SEPT   | OCT    | NOV   | DEC   | TOTAL YEAR GALLONS |
|------|-----|-----|-----|------|--------|--------|--------|--------|--------|--------|-------|-------|--------------------|
| 2002 |     | 0   | 0   | 0    | 0      | 0      | 0      | 0      | 0      | 0      | 0     | 2100  | 0 2100             |
| 2003 |     | 0   | 0   | 0    | 18600  | 68700  | 57800  | 84500  | 93500  | 26600  | 47400 | 40800 | 0 437900           |
| 2004 |     | 0   | 0   | 0    | 15400  | 82900  | 70500  | 87900  | 278    | 101300 | 7000  | 2100  | 0 367378           |
| 2005 |     | 0   | 0   | 0    | 10400  | 24800  | 127000 | 111600 | 80600  | 46800  | 23700 | 4200  | 0 429100           |
| 2006 |     | 0   | 0   | 1400 | 100000 | 164000 | 137600 | 52700  | 38300  | 44000  | 27400 | 6700  | 0 572100           |
| 2007 |     | 0   | 0   | 0    | 11200  | 43800  | 29300  | 97200  | 43300  | 85100  | 41700 | 16600 | 0 368200           |
| 2008 |     | 0   | 0   | 0    | 11200  | 61500  | 102700 | 85800  | 57600  | 38300  | 50400 | 7600  | 0 415100           |
| 2009 |     | 0   | 0   | 700  | 20500  | 82100  | 49000  | 165900 | 65800  | 78200  | 47100 | 6100  | 0 515400           |
| 2010 |     | 0   | 0   | 0    | 6100   | 41800  | 149800 | 80300  | 77200  | 134300 | 74900 | 18900 | 0 583300           |
| 2011 |     | 0   | 0   | 7400 | 19600  | 74700  | 113500 | 140200 | 145000 | 50800  | 34200 | 11900 | 0 597300           |
| 2012 |     | 0   | 0   | 0    | 26700  | 46900  | 91800  | 95600  | 104700 | 73900  | 88300 | 32700 | 0 560600           |
| 2013 |     | 0   | 0   | 0    | 3400   | 62600  | 85800  | 83200  | 43500  | 73800  | 26800 | 15300 | 0 394400           |
| 2014 |     | 0   | 0   | 0    | 6300   | 58700  | 82200  | 82300  | 52900  | 67300  | 28600 | 11000 | 0 389300           |
| 2015 |     | 0   | 0   | 0    | 0      | 31500  | 45500  | 67900  | 60200  | 67300  | 68600 | 5100  | 0 346100           |



Frank S. Ortiz Dog Park

|           |         |      |                 |
|-----------|---------|------|-----------------|
| Account # | Meter # | Size | Service Address |
| 548843    | 9956515 | 1"   | 46431           |

| YEAR | JAN | FEB | MAR | APR | MAY  | JUNE | JULY  | AUG   | SEPT | OCT   | NOV   | DEC  | TOTAL YEAR GALLONS |
|------|-----|-----|-----|-----|------|------|-------|-------|------|-------|-------|------|--------------------|
| 2002 |     |     |     |     |      |      |       |       |      |       |       |      | 0                  |
| 2003 |     |     |     |     |      |      |       |       |      |       |       |      | 0                  |
| 2004 |     |     |     |     |      |      |       |       |      |       |       |      | 0                  |
| 2005 |     |     |     |     |      |      |       |       |      |       |       |      | 0                  |
| 2006 |     |     |     |     |      |      |       |       |      |       |       |      | 0                  |
| 2007 |     |     |     |     |      |      |       |       |      |       |       |      | 0                  |
| 2008 |     |     |     |     |      |      |       |       |      |       |       |      | 0                  |
| 2009 |     |     |     |     |      |      |       |       |      |       |       |      | 0                  |
| 2010 |     | 0   | 0   | 0   | 0    | 0    | 0     | 0     | 0    | 0     | 60900 |      | 0 60900            |
| 2011 |     | 0   | 0   | 0   | 3400 | 8000 | 4200  | 5000  | 5100 | 1100  | 2400  | 400  | 0 29600            |
| 2012 |     | 0   | 0   | 0   | 1300 | 4900 | 10800 | 10600 | 9700 | 9200  | 7400  | 4800 | 58700              |
| 2013 |     | 0   | 0   | 0   | 0    | 9300 | 12200 | 10900 | 6000 | 11100 | 2100  | 1000 | 0 52600            |
| 2014 |     | 0   | 0   | 0   | 0    | 900  | 10800 | 12900 | 7900 | 12900 | 7600  | 2400 | 0 55400            |
| 2015 |     | 0   | 0   | 0   | 0    | 4700 | 5800  | 8100  | 3000 | 6100  | 1600  | 0    | 0 29300            |



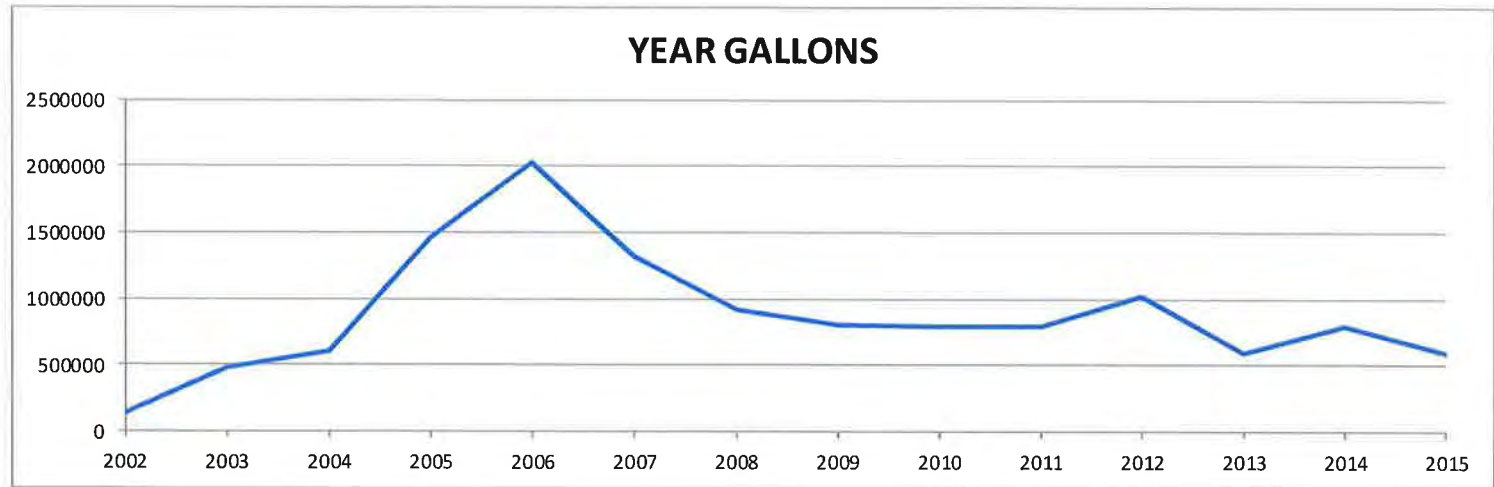
Additional small irrigated area added 2009



| Walk-Through Irrigation System Audit and Site Evaluation |  |  |  |                              |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                   |  |                     |  |
|----------------------------------------------------------|--|--|--|------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------|--|---------------------|--|
| Site Name: Frank Ortiz Park                              |  |  |  |                              |  | Contacts:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                   |  |                     |  |
| Site Address:                                            |  |  |  |                              |  | Phone #:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                   |  |                     |  |
| Surveyor: Sam                                            |  |  |  | Time: Start ____ Finish ____ |  | Contacts:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                   |  |                     |  |
| Survey Date:                                             |  |  |  | Catch Cup Date:              |  | Phone #:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                   |  |                     |  |
| Landscape (sq. ft.):                                     |  |  |  |                              |  | Turf (sq. ft.):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | Shrubs (sq. ft.): |  |                     |  |
| Meter #'s                                                |  |  |  |                              |  | Begin Read                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | End Read          |  |                     |  |
| 9956515                                                  |  |  |  |                              |  | 00259884                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | 00260424          |  |                     |  |
|                                                          |  |  |  |                              |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | static            |  |                     |  |
|                                                          |  |  |  |                              |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | Backflow PSI      |  |                     |  |
|                                                          |  |  |  |                              |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | dynamic           |  |                     |  |
|                                                          |  |  |  |                              |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | 65                |  |                     |  |
|                                                          |  |  |  |                              |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | 42                |  |                     |  |
|                                                          |  |  |  |                              |  | Original install was RB .50 GPM bubblers.<br>Many capped or have been replaced with<br>Irritrol adjustable Bubblers. Trees with<br>Irritrol are in distress from overwatering.                                                                                                                                                                                                                                                                                                                                                                               |  |                   |  |                     |  |
|                                                          |  |  |  |                              |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                   |  |                     |  |
|                                                          |  |  |  |                              |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                   |  |                     |  |
|                                                          |  |  |  |                              |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                   |  |                     |  |
|                                                          |  |  |  |                              |  | T=Slanted, C=Clogged, B=Blocked Spray, BS=Broken Stem, BH=Broken Head,<br>BN=Broken Nozzle, CO=Cap Off, WS=Wrong Spraying, WAW=Wrong Arc,<br>RD=Radius Screw Down Too Far, RF=Runoff, OV= Overspray, LH= Low Head,<br>LPS=Low Pressure at Head, UP=Stuck Up, RTE= Rotation Too Fast, MH= Missing Head, BV= Broken Valve, NC= Nozzle Color, CNF= Can Not Find,<br>NST=No Start Time, MPR= MP Rotator Nozzles/Heads Recommended for this area, RX=Remove turf for Xeriscape or Shrub Bed, (Count number of Trees, Shrubs per Zone), Additional Notes as needed |  |                   |  |                     |  |
| Zone                                                     |  |  |  |                              |  | Head or Sprinkler Type and Location if needed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | Head #            |  | Test Time (min)     |  |
| 1                                                        |  |  |  |                              |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | 54                |  | 20                  |  |
|                                                          |  |  |  |                              |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                   |  | Target: 540 Gal     |  |
|                                                          |  |  |  |                              |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                   |  | Actual: 322 Gal 77% |  |
| 2                                                        |  |  |  |                              |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | 15                |  | 20                  |  |
|                                                          |  |  |  |                              |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                   |  | Target: 150 Gal     |  |
|                                                          |  |  |  |                              |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                   |  | Actual: 112 Gal 75% |  |
| 3                                                        |  |  |  |                              |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                   |  |                     |  |
|                                                          |  |  |  |                              |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                   |  |                     |  |
| 4                                                        |  |  |  |                              |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                   |  |                     |  |
|                                                          |  |  |  |                              |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                   |  |                     |  |
| 5                                                        |  |  |  |                              |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                   |  |                     |  |

John Griego (Veterans)      Account # 407767   Meter # 9940826   Size 2"   Service Address 31711  
 1605 PASEO DE LA CONQUISTADORA PARK

| YEAR | JAN | FEB | MAR | APR  | MAY    | JUNE   | JULY   | AUG    | SEPT   | OCT    | NOV    | DEC   |   |         |
|------|-----|-----|-----|------|--------|--------|--------|--------|--------|--------|--------|-------|---|---------|
| 2002 |     | 0   | 0   | 0    | 0      | 0      | 0      | 0      | 0      | 0      | 137200 |       | 0 | 137200  |
| 2003 |     | 0   | 0   | 0    | 0      | 64100  | 116800 | 119800 | 108800 | 0      | 44600  | 25700 | 0 | 479800  |
| 2004 |     | 0   | 0   | 0    | 20400  | 39500  | 103600 | 134900 | 75600  | 139700 | 68800  | 21200 | 0 | 603700  |
| 2005 |     | 0   | 0   | 0    | 32000  | 76300  | 179200 | 340800 | 356900 | 120900 | 0      |       | 0 | 1463600 |
| 2006 |     | 0   | 0   | 4800 | 285800 | 235400 | 361000 | 332600 | 363000 | 338500 | 96900  | 13000 | 0 | 2031000 |
| 2007 |     | 0   | 0   | 0    | 33900  | 118200 | 80700  | 239700 | 217100 | 257500 | 363700 | 15900 | 0 | 1326700 |
| 2008 |     | 0   | 0   | 0    | 17000  | 120300 | 145600 | 209100 | 121700 | 118800 | 148800 | 40300 | 0 | 921600  |
| 2009 |     | 0   | 0   | 100  | 64400  | 86700  | 114800 | 169100 | 209500 | 160000 | 0      | 8500  | 0 | 813100  |
| 2010 |     | 0   | 0   | 0    | 21200  | 79100  | 139600 | 226600 | 84600  | 125500 | 92800  | 26500 | 0 | 795900  |
| 2011 |     | 0   | 0   | 0    | 51400  | 126100 | 113500 | 188500 | 172500 | 79300  | 53900  | 12700 | 0 | 797900  |
| 2012 |     | 0   | 0   | 0    | 46400  | 121500 | 165800 | 198600 | 203900 | 170600 | 90700  | 23800 | 0 | 1021300 |
| 2013 |     | 0   | 0   | 0    | 9200   | 76400  | 132800 | 120500 | 109700 | 117800 | 11900  | 9300  | 0 | 587600  |
| 2014 |     | 0   | 0   | 0    | 18000  | 129800 | 125700 | 206600 | 91300  | 127000 | 74500  | 24400 | 0 | 797300  |
| 2015 |     | 0   | 0   | 0    | 4900   | 59800  | 62800  | 122700 | 76200  | 137000 | 125200 | 0     | 0 | 588600  |



Irrigation upgrade in 2012

Mager's Field

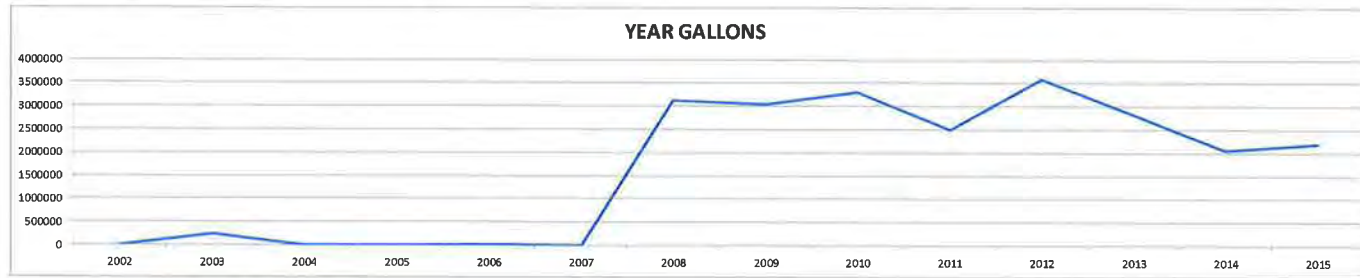
Account # 360401

Meter # 99557151/2

Size 4" & 4"

Service Address 31952

| YEAR | JAN A | JAN B | FEB A | FEB B | MAR A | MAR B | APR A | APR B  | MAY A  | MAY B  | JUNE A | JUNE B | JULY A | JULY B  | AUG A  | AUG B  | SEPT A | SEPT B | OCT A  | OCT B  | NOV A  | NOV B  | DEC A | DEC B | TOTAL YEAR GALLONS |        |
|------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------------------|--------|
| 2002 | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0     | 0     | 0                  |        |
| 2003 | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 3000   | 0      | 1000   | 0      | 0      | 0       | 1000   | 0      | 0      | 0      | 0      | 164000 | 0      | 74000  | 0     | 0     | 0                  | 243000 |
| 2004 | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0     | 0     | 0                  |        |
| 2005 | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 2000   | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0     | 0     | 2000               |        |
| 2006 | 0     | 0     | 0     | 0     | 0     | 0     | 25000 | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0     | 0     | 25000              |        |
| 2007 | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0     | 0     | 0                  |        |
| 2008 | 100   | 400   | 0     | 0     | 14000 | 97300 | 29300 | 275200 | 51900  | 476900 | 80900  | 0      | 50300  | 1224300 | 0      | 0      | 44900  | 370200 | 46200  | 279500 | 7300   | 0      | 6500  | 0     | 63700 3118900      |        |
| 2009 | 0     | 200   | 0     | 0     | 10800 | 4600  | 15300 | 122400 | 36500  | 327500 | 50500  | 459400 | 50800  | 467100  | 87000  | 764000 | 40500  | 338500 | 25600  | 234400 | 0      | 0      | 0     | 0     | 3035100            |        |
| 2010 | 0     | 0     | 0     | 0     | 0     | 0     | 1500  | 27100  | 237200 | 45600  | 418900 | 70000  | 599600 | 49300   | 414800 | 89000  | 832000 | 39200  | 339300 | 10200  | 100700 | 0      | 0     | 0     | 3301500            |        |
| 2011 | 0     | 0     | 0     | 0     | 0     | 0     | 26300 | 257700 | 22700  | 215300 | 46300  | 417000 | 47700  | 445300  | 55500  | 504700 | 25600  | 236000 | 18100  | 160800 | 5100   | 19700  | 0     | 0     | 2503800            |        |
| 2012 | 0     | 0     | 0     | 0     | 0     | 0     | 13700 | 145400 | 32900  | 324500 | 52300  | 497800 | 97800  | 932600  | 43700  | 406100 | 37800  | 352200 | 38300  | 393100 | 24100  | 195400 | 0     | 0     | 3587700            |        |
| 2013 | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 800    | 60600  | 564100 | 63500  | 605800 | 52800  | 473100  | 32100  | 305200 | 47500  | 457300 | 15900  | 76300  | 9800   | 54100  | 0     | 0     | 2818900            |        |
| 2014 | 0     | 0     | 0     | 0     | 0     | 0     | 4700  | 49100  | 37700  | 356800 | 35000  | 337800 | 69900  | 374600  | 19000  | 182300 | 28700  | 290300 | 22200  | 212900 | 2500   | 25600  | 0     | 0     | 2049100            |        |
| 2015 | 0     | 0     | 0     | 0     | 0     | 0     | 1100  | 34500  | 29500  | 387300 | 22900  | 205400 | 30100  | 659300  | 28600  | 10300  | 34700  | 401900 | 32000  | 308400 | 4200   | 0      | 0     | 0     | 2190200            |        |

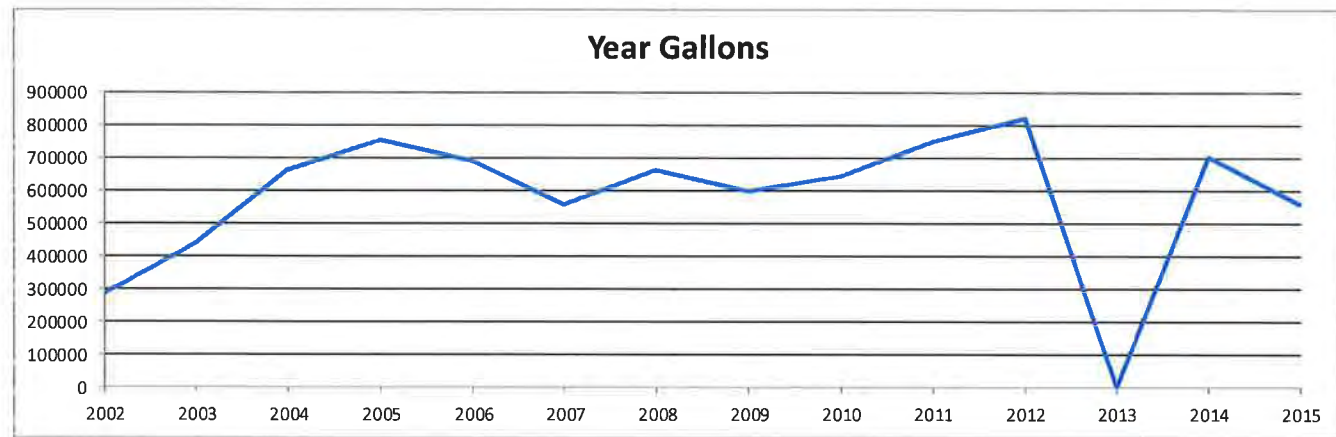


Plaza Park

|           |          |       |                 |
|-----------|----------|-------|-----------------|
| Account # | Meter #  | Size  | Service Address |
| 382088    | 9961271/ | 2"&1" | 27875           |

| YEAR | JAN   | FEB | MAR    | APR   | MAY    | JUNE   | JULY   | AUG    | SEPT   | OCT    | NOV   | DEC | TOTAL YEAR GALLONS |
|------|-------|-----|--------|-------|--------|--------|--------|--------|--------|--------|-------|-----|--------------------|
| 2002 | 0     | 0   | 133700 | 31800 | 45700  | 43300  | 100    | 900    | 12300  | 18700  | 100   | 400 | 287000             |
| 2003 | 0     | 0   | 0      | 3000  | 41100  | 52300  | 115500 | 101900 | 58400  | 63300  | 6900  | 0   | 442400             |
| 2004 | 0     | 0   | 0      | 4100  | 116600 | 163700 | 137000 | 79600  | 80300  | 56900  | 26000 | 0   | 664200             |
| 2005 | 0     | 0   | 400    | 31700 | 116500 | 163500 | 175900 | 101500 | 104600 | 60600  | 0     | 0   | 754700             |
| 2006 | 18300 | 0   | 13600  | 63800 | 128000 | 133000 | 99400  | 61600  | 54400  | 90000  | 26300 | 0   | 688400             |
| 2007 | 0     | 0   | 0      | 23700 | 70500  | 96900  | 112300 | 66600  | 113000 | 70200  | 3500  | 0   | 556700             |
| 2008 | 0     | 0   | 0      | 12500 | 160800 | 162500 | 102000 | 80100  | 76500  | 68700  | 0     | 0   | 663100             |
| 2009 | 0     | 0   | 0      | 25500 | 127800 | 63300  | 88400  | 125400 | 93300  | 72900  | 800   | 0   | 597400             |
| 2010 | 0     | 0   | 0      | 23900 | 112300 | 107200 | 118300 | 78100  | 82600  | 99600  | 24300 | 0   | 646300             |
| 2011 | 0     | 0   | 0      | 67000 | 164500 | 68500  | 133100 | 136700 | 72700  | 94900  | 9000  | 0   | 746400             |
| 2012 | 0     | 0   | 0      | 47300 | 79300  | 91400  | 137900 | 129200 | 111300 | 151100 | 72100 | 0   | 819600             |
| 2013 | 0     | 0   | 0      | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0     | 0   | 0                  |
| 2014 | 0     | 0   | 0      | 57800 | 78000  | 74900  | 130500 | 80800  | 139400 | 119300 | 23700 | 0   | 704400             |
| 2015 | 0     | 0   | 0      | 63100 | 69700  | 57000  | 89000  | 84800  | 84500  | 91400  | 17800 | 0   | 557300             |

Failed Meter



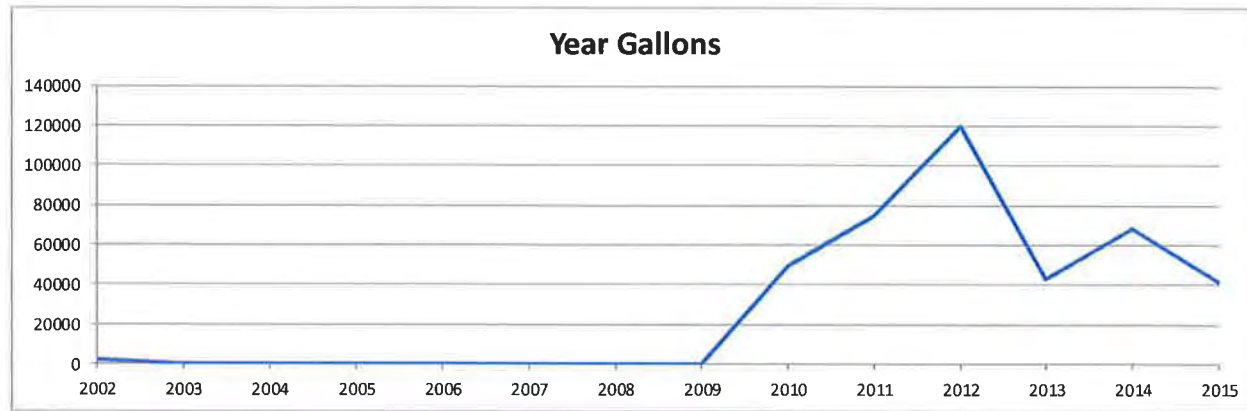
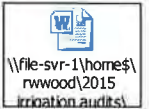
meter failure in 2013

Sunnyslope

Account # 560095 Meter # 9957579 Size 5/8" Service Address 46422

YEAR

|      | JAN | FEB | MAR | APR   | MAY   | JUNE  | JULY  | AUG   | SEPT  | OCT   | NOV   | DEC  | TOTAL YEAR GALLONS |        |
|------|-----|-----|-----|-------|-------|-------|-------|-------|-------|-------|-------|------|--------------------|--------|
| 2002 | 0   | 0   | 0   | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 2100 | 0                  | 2100   |
| 2003 | 0   | 0   | 0   | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0    | 0                  | 0      |
| 2004 | 0   | 0   | 0   | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0    | 0                  | 0      |
| 2005 | 0   | 0   | 0   | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0    | 0                  | 0      |
| 2006 | 0   | 0   | 0   | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0    | 0                  | 0      |
| 2007 | 0   | 0   | 0   | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0    | 0                  | 0      |
| 2008 | 0   | 0   | 0   | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0    | 0                  | 0      |
| 2009 | 0   | 0   | 0   | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0    | 0                  | 0      |
| 2010 | 0   | 0   | 0   | 0     | 0     | 11400 | 0     | 0     | 0     | 38000 | 0     | 0    | 0                  | 49400  |
| 2011 | 0   | 0   | 0   | 5400  | 0     | 0     | 0     | 0     | 0     | 0     | 69600 | 0    | 0                  | 75000  |
| 2012 | 0   | 0   | 0   | 28800 | 31800 | 20600 | 11400 | 11600 | 9000  | 5100  | 1400  | 0    | 0                  | 119700 |
| 2013 | 0   | 0   | 0   | 6400  | 3000  | 9100  | 10000 | 5300  | 7300  | 1800  | 200   | 0    | 0                  | 43100  |
| 2014 | 0   | 0   | 0   | 500   | 2200  | 12500 | 19900 | 19300 | 9600  | 2700  | 1500  | 0    | 0                  | 68200  |
| 2015 | 0   | 0   | 0   | 200   | 1500  | 5500  | 9000  | 7700  | 13300 | 4100  | 100   | 0    | 0                  | 41400  |



Community Gardens added 2009

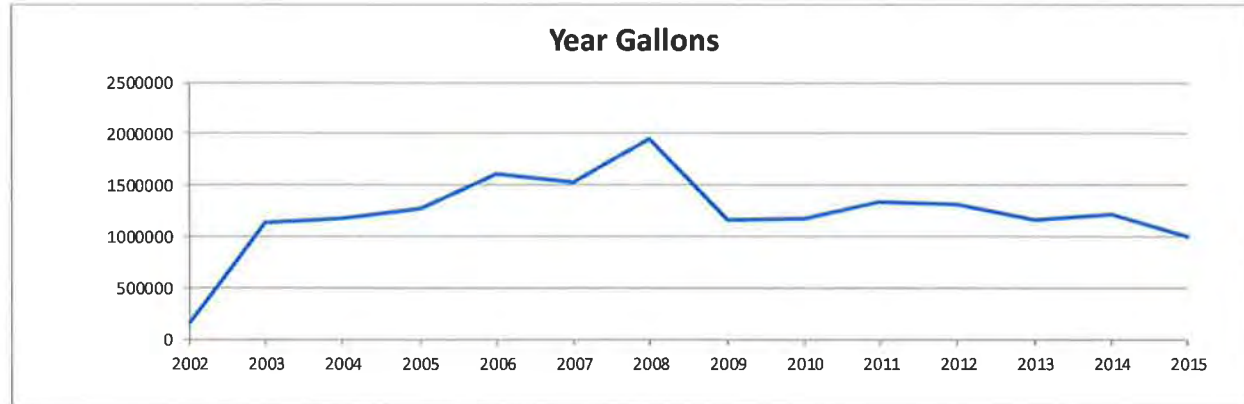
| Walk-Through Irrigation System Audit and Site Evaluation |         |                                               |                            |                 |                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------------|---------|-----------------------------------------------|----------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Site Name: Sunny Slope                                   |         |                                               |                            | Contacts:       |                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Site Address:                                            |         |                                               |                            | Phone #:        |                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Surveyor: Sam                                            |         |                                               | Time: Start ___ Finish ___ |                 | Contacts:                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Survey Date: 06/23/2015                                  |         | Catch Cup Date:                               |                            | Phone #:        |                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                                          |         | Landscape (sq. ft.):                          |                            | Turf (sq. ft.): |                                                                                                                                                                                                                           | Shrubs (sq. ft.):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Meter #'s                                                |         | Begin Read                                    | End Read                   | Backflow PSI    | Comments:                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                                          | 3681 49 | 368529                                        |                            | static dynamic  | Original install specified RB .50 GPM Bubbler. System is primarily Irritrol adjustable bubblers. Replace back to specifications with RB .50 GPM Bubbler. System needs new solenoids as currently some are non-functional. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                                          |         |                                               |                            | 125 20          |                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                                          |         |                                               |                            |                 |                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                                          |         |                                               |                            |                 |                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                                          |         |                                               |                            |                 |                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Zone                                                     |         | Head or Sprinkler Type and Location if needed | Head #                     | Test Time (min) | Head PSI on Zone                                                                                                                                                                                                          | T=Slanted, C=Clogged, B=Blocked Spray, BS=Broken Stem, BH=Broken Head, BN=Broken Nozzle, CO=Cap Off, WS=Wrong Spacing, WA=Wrong Arc, RD=Radius Screw Down Too Far, RF=Runoff, OV=Overspray, LH=Low Head, LPSI=Low Pressure at Head, UP=Stuck Up, RT=Rotation Too Fast, MH=Missing Head, BV=Broken Valve, NC=Nozzle Color, CNF=Can Not Find, NST=No Start Time, MPR=MP Rotator Nozzle/Heads Recommended for this area, RX=Remove turf for Xeriscape or Shrub Bed, (Count number of Trees, Shrubs per Zone), Additional Notes as needed |
| Catch Cup Count                                          |         |                                               |                            |                 |                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 1                                                        |         | Irritrol & RB .50 GPM                         | 24                         | 20              |                                                                                                                                                                                                                           | Target: 240 GPM 7 Trees                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                          |         |                                               |                            |                 |                                                                                                                                                                                                                           | Actual: 352 GPM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 2                                                        |         | Irritrol & RB .50 GPM                         | 18                         | 20              |                                                                                                                                                                                                                           | Target: 180 GPM 6 Trees                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                          |         |                                               |                            |                 |                                                                                                                                                                                                                           | Actual: 380 GPM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 3                                                        |         |                                               |                            |                 |                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

Torreon  
1515 ALAMEDA ST -TORREON PARK  
YEAR

Account # Meter # Size Service Address  
357000 9961712 2" 31540

System DU report =  
31%

|      | JAN | FEB | MAR | APR | MAY    | JUNE   | JULY   | AUG    | SEPT   | OCT    | NOV    | DEC    | TOTAL YEAR GALLONS |         |
|------|-----|-----|-----|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------------------|---------|
| 2002 |     | 0   | 0   | 0   | 14900  | 54000  | 53300  | 1000   | 2900   | 0      | 26700  | 0      | 0                  | 152800  |
| 2003 |     | 0   | 0   | 0   | 0      | 65600  | 257700 | 297800 | 218300 | 180900 | 300    | 119900 | 0                  | 1140500 |
| 2004 |     | 0   | 0   | 0   | 0      | 119500 | 77600  | 248300 | 249700 | 252800 | 136900 | 97100  | 0                  | 1181900 |
| 2005 |     | 0   | 0   | 0   | 47700  | 222700 | 288300 | 218100 | 195800 | 232900 | 67100  | 0      | 0                  | 1272600 |
| 2006 |     | 0   | 0   | 300 | 272400 | 319900 | 308100 | 256500 | 187000 | 107900 | 163400 | 2900   | 0                  | 1618400 |
| 2007 |     | 0   | 0   | 0   | 41000  | 143900 | 141900 | 306000 | 272200 | 299400 | 312000 | 13600  | 0                  | 1530000 |
| 2008 |     | 0   | 0   | 0   | 30500  | 90600  | 192600 | 319400 | 513000 | 414500 | 339600 | 56100  | 0                  | 1956300 |
| 2009 |     | 0   | 0   | 0   | 74000  | 91500  | 156100 | 210900 | 270900 | 178100 | 141700 | 36200  | 0                  | 1159400 |
| 2010 |     | 0   | 0   | 0   | 32000  | 106000 | 205200 | 192500 | 191100 | 196500 | 209300 | 50300  | 0                  | 1182900 |
| 2011 |     | 0   | 0   | 0   | 98600  | 178000 | 169100 | 258500 | 217300 | 210600 | 151500 | 61000  | 0                  | 1344600 |
| 2012 |     | 0   | 0   | 0   | 47000  | 131200 | 181200 | 269000 | 196300 | 183000 | 248900 | 59500  | 0                  | 1316100 |
| 2013 |     | 0   | 0   | 0   | 2800   | 175000 | 252800 | 212400 | 206500 | 193700 | 70100  | 53000  | 0                  | 1166300 |
| 2014 |     | 0   | 0   | 0   | 59300  | 252900 | 227300 | 227800 | 124600 | 189700 | 106800 | 34700  | 0                  | 1223100 |
| 2015 |     | 0   | 0   | 0   | 0      | 75600  | 115100 | 216600 | 143500 | 229800 | 221700 | 1200   | 0                  | 1003500 |



| Project Name                      |                              | Torreón |                                  | Date                             | June 25, 2015 |        |    |     |
|-----------------------------------|------------------------------|---------|----------------------------------|----------------------------------|---------------|--------|----|-----|
| Address                           |                              |         |                                  | Auditor                          | Sam           |        |    |     |
| City, State                       |                              |         |                                  | Area/Zone/Station                | 1.00          |        |    |     |
| Test Area/Station                 |                              |         | 1                                |                                  |               |        |    |     |
| Catch Device Volumes              |                              |         |                                  |                                  |               |        |    |     |
| 1                                 | 4                            | 17      | 20                               | 33                               | 20            | 49     | 65 | min |
| 2                                 | 14                           | 18      | 15                               | 34                               | 15            | 50     | 66 |     |
| 3                                 | 15                           | 19      | 25                               | 35                               | 15            | 51     | 67 | 81  |
| 4                                 | 13                           | 20      | 26                               | 36                               | 5             | 52     | 68 | 82  |
| 5                                 | 25                           | 21      | 26                               | 37                               |               | 53     | 69 | 83  |
| 6                                 | 25                           | 22      | 16                               | 38                               |               | 54     | 70 | 84  |
| 7                                 | 40                           | 23      | 15                               | 39                               |               | 55     | 71 | 85  |
| 8                                 | 10                           | 24      | 22                               | 40                               |               | 56     | 72 | 86  |
| 9                                 | 14                           | 25      | 17                               | 41                               |               | 57     | 73 | 87  |
| 10                                | 25                           | 26      | 43                               | 42                               |               | 58     | 74 | 88  |
| 11                                | 14                           | 27      | 7                                | 43                               |               | 59     | 75 | 89  |
| 12                                | 17                           | 28      | 0                                | 44                               |               | 60     | 76 | 90  |
| 13                                | 15                           | 29      | 15                               | 45                               |               | 61     | 77 | 91  |
| 14                                | 20                           | 30      | 4                                | 46                               |               | 62     | 78 | 92  |
| 15                                | 25                           | 31      | 4                                | 47                               |               | 63     | 79 | 93  |
| 16                                | 20                           | 32      | 0                                | 48                               |               | 64     | 80 | 94  |
|                                   |                              |         |                                  |                                  |               |        |    | 95  |
| Number Catch Devices              |                              | 36      | 1/4 Number Catch Devices         |                                  |               | 9      |    | 96  |
| Total Catch Volume                |                              | 606     | Total Low Quarter                |                                  |               | 47     |    |     |
| Average Volume ( $V_{avg}$ )      |                              | 16.83   | Average Low Quarter ( $V_{lq}$ ) |                                  |               | 5.22   |    |     |
| Calculate Distribution Uniformity |                              |         |                                  |                                  |               |        |    |     |
| DU <sub>lq</sub> =                |                              |         |                                  | Average Low Quarter ( $V_{lq}$ ) |               | = 0.31 |    |     |
|                                   | Average Volume ( $V_{avg}$ ) |         |                                  |                                  |               |        |    |     |

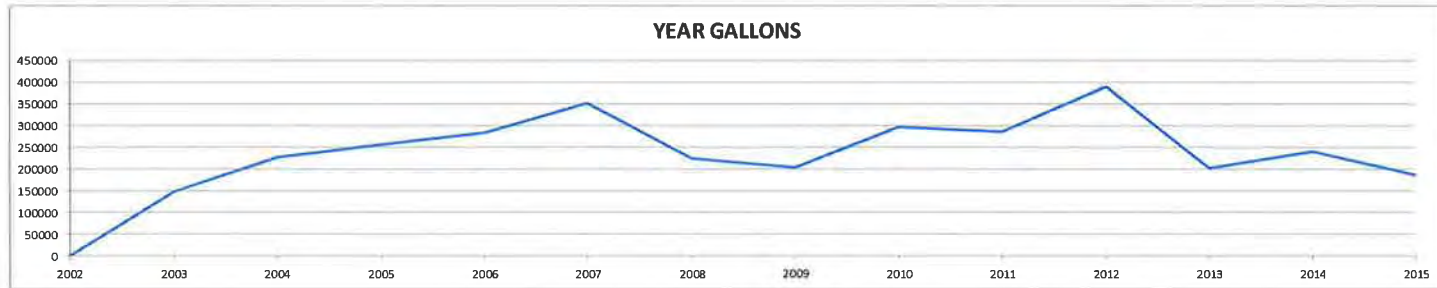


Macaione

Account # 360225 Meter # 9920289/NONE Size 5/8" & 5/8 Service Address 28607

YEAR

|      | JAN A | JAN B | FEB A | FEB B | MAR A | MAR B | APR A | APR B | MAY A | MAY B | JUNE A | JUNE B | JULY A | JULY B | AUG A | AUG B | SEPT A | SEPT B | OCT A | OCT B | NOV A | NOV B | DEC A | DEC B | TOTAL YEAR GALLONS |        |        |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|--------------------|--------|--------|
| 2002 | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 100    | 0      | 0      | 0     | 0     | 0      | 0      | 0     | 0     | 0     | 0     | 0     | 0     | 100                |        |        |
| 2003 | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 500   | 1200  | 10100  | 9300   | 18800  | 14300  | 22400 | 19100 | 6100   | 2500   | 15100 | 14300 | 8000  | 6800  | 0     | 0     | 148500             |        |        |
| 2004 | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 800   | 1100  | 17700 | 19600  | 31100  | 24700  | 18200  | 15000 | 25800 | 19200  | 20000  | 12100 | 14400 | 7600  | 0     | 100   | 0     | 0                  | 227400 |        |
| 2005 | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 5400  | 4600  | 14600 | 10000  | 31400  | 27800  | 39900  | 27400 | 29800 | 19400  | 13600  | 11200 | 11400 | 6800  | 2400  | 1300  | 0     | 0                  | 257000 |        |
| 2006 | 0     | 0     | 0     | 0     | 900   | 800   | 31400 | 22800 | 23600 | 22900 | 25900  | 19500  | 100    | 17300  | 33200 | 11000 | 24200  | 16300  | 14500 | 18500 | 0     | 100   | 0     | 0     | 0                  | 283000 |        |
| 2007 | 0     | 0     | 0     | 0     | 0     | 100   | 9200  | 16400 | 24600 | 62300 | 24800  | 43600  | 17900  | 13400  | 15600 | 13500 | 30400  | 20700  | 21900 | 20200 | 16700 | 1000  | 0     | 0     | 0                  | 352300 |        |
| 2008 | 0     | 0     | 0     | 0     | 0     | 0     | 12000 | 3900  | 6000  | 9400  | 24500  | 27900  | 16800  | 27400  | 10500 | 20800 | 7700   | 18700  | 9400  | 22500 | 0     | 7900  | 0     | 0     | 0                  | 225400 |        |
| 2009 | 0     | 0     | 0     | 0     | 0     | 0     | 1600  | 1400  | 15500 | 13600 | 13400  | 13000  | 26000  | 22800  | 24200 | 21500 | 19200  | 16900  | 5400  | 5100  | 2900  | 2500  | 0     | 0     | 0                  | 205000 |        |
| 2010 | 0     | 0     | 0     | 0     | 0     | 0     | 4200  | 2700  | 17000 | 15100 | 34100  | 28800  | 28800  | 25100  | 22600 | 19700 | 32100  | 30100  | 20900 | 16300 | 0     | 0     | 0     | 0     | 0                  | 297500 |        |
| 2011 | 0     | 0     | 0     | 0     | 0     | 0     | 12800 | 10800 | 23700 | 8700  | 28200  | 36300  | 9000   | 24400  | 42200 | 10000 | 33000  | 7200   | 20700 | 0     | 19100 | 0     | 0     | 0     | 0                  | 0      | 286100 |
| 2012 | 0     | 0     | 0     | 0     | 0     | 0     | 15200 | 0     | 33200 | 0     | 95800  | 0      | 47300  | 0      | 82500 | 0     | 58600  | 0      | 46400 | 0     | 11000 | 0     | 0     | 0     | 0                  | 0      | 390000 |
| 2013 | 0     | 0     | 0     | 0     | 0     | 0     | 3200  | 0     | 32200 | 0     | 44600  | 0      | 38800  | 0      | 17600 | 0     | 45200  | 0      | 12500 | 0     | 6900  | 0     | 0     | 0     | 0                  | 0      | 201000 |
| 2014 | 0     | 0     | 0     | 0     | 0     | 0     | 4200  | 0     | 39600 | 0     | 49800  | 0      | 49400  | 0      | 27600 | 0     | 41900  | 0      | 26100 | 0     | 1300  | 0     | 0     | 0     | 0                  | 0      | 239900 |
| 2015 | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 20100 | 0     | 22200  | 0      | 29100  | 0      | 31400 | 0     | 42600  | 0      | 30100 | 0     | 9800  | 0     | 0     | 0     | 0                  | 0      | 185300 |

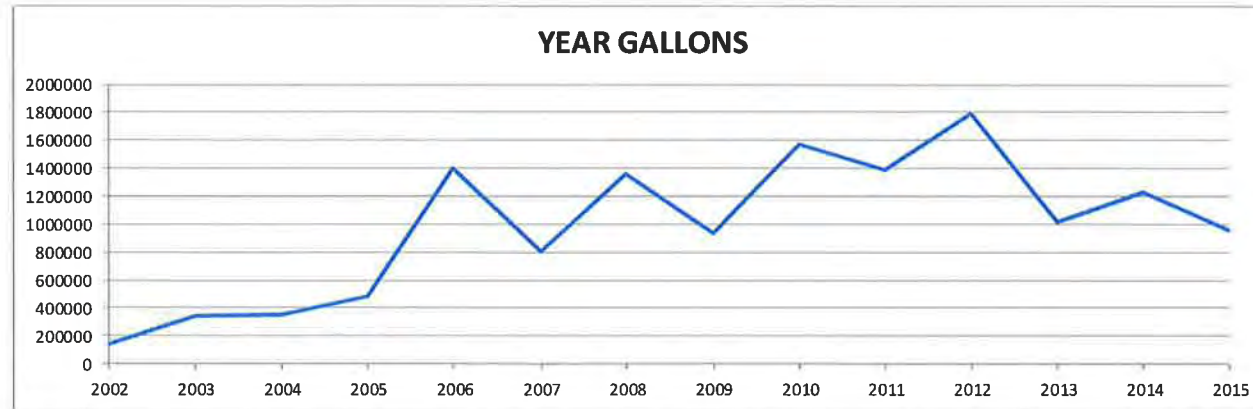


Amelia White  
981 OLD SANTA FE TRL  
YEAR

Account # Meter # Size Service Address  
374635 9938638 2" 27928

System DU report =  
49%

|      | JAN | FEB | MAR | APR    | MAY    | JUNE   | JULY   | AUG    | SEPT   | OCT    | NOV   | DEC | TOTAL YEAR GALLONS |
|------|-----|-----|-----|--------|--------|--------|--------|--------|--------|--------|-------|-----|--------------------|
| 2002 | 0   | 0   | 0   | 19500  | 36300  | 41700  | 19900  | 0      | 0      | 21500  | 3300  | 0   | 142200             |
| 2003 | 0   | 0   | 0   | 33700  | 40000  | 58000  | 53200  | 51300  | 42500  | 42500  | 26400 | 0   | 347600             |
| 2004 | 0   | 0   | 0   | 8800   | 17300  | 39800  | 65600  | 57400  | 67900  | 43100  | 52000 | 0   | 351900             |
| 2005 | 0   | 0   | 0   | 11200  | 74000  | 71000  | 68700  | 83200  | 36200  | 99600  | 44400 | 0   | 488300             |
| 2006 | 0   | 0   | 0   | 381800 | 101600 | 154700 | 130900 | 257900 | 247900 | 107400 | 23400 | 0   | 1405600            |
| 2007 | 0   | 0   | 0   | 52700  | 86700  | 82000  | 91700  | 130100 | 198400 | 130500 | 38300 | 0   | 810400             |
| 2008 | 0   | 0   | 0   | 16200  | 199800 | 327000 | 281900 | 252000 | 128400 | 138500 | 15400 | 0   | 1359200            |
| 2009 | 0   | 0   | 0   | 1700   | 102800 | 160700 | 149000 | 250600 | 170000 | 99100  | 600   | 0   | 934500             |
| 2010 | 0   | 0   | 0   | 15200  | 69600  | 281600 | 439100 | 116300 | 335300 | 263000 | 56100 | 0   | 1576200            |
| 2011 | 0   | 0   | 0   | 87200  | 241400 | 192700 | 320500 | 285200 | 116800 | 114100 | 34500 | 0   | 1392400            |
| 2012 | 0   | 0   | 0   | 47800  | 189500 | 271900 | 348400 | 368500 | 304400 | 191600 | 70100 | 0   | 1792200            |
| 2013 | 0   | 0   | 0   | 12100  | 93700  | 112100 | 210700 | 194800 | 351300 | 41400  | 0     | 0   | 1016100            |
| 2014 | 0   | 0   | 0   | 48100  | 115200 | 195700 | 253000 | 156300 | 314500 | 141700 | 10100 | 0   | 1234600            |
| 2015 | 0   | 0   | 0   | 4800   | 74100  | 75800  | 225900 | 105300 | 216400 | 233500 | 27100 | 0   | 962900             |



|                                                      |                                             |                     |              |                                             |  |                                      |              |    |  |
|------------------------------------------------------|---------------------------------------------|---------------------|--------------|---------------------------------------------|--|--------------------------------------|--------------|----|--|
| <b>Project Name</b>                                  |                                             | <b>Amelia White</b> |              | <b>Date</b>                                 |  | <b>June 25, 2015</b>                 |              |    |  |
| <b>Address</b>                                       |                                             |                     |              | <b>Auditor</b>                              |  | <b>Sam</b>                           |              |    |  |
| <b>City, State</b>                                   |                                             |                     |              | <b>Area/Zone/Station</b>                    |  | <b>1.00</b>                          |              |    |  |
|                                                      |                                             |                     |              |                                             |  |                                      |              |    |  |
| <b>See instructions below on clearing input area</b> |                                             |                     |              |                                             |  |                                      |              |    |  |
| <b>Test Area/Station</b>                             |                                             |                     | <b>1</b>     |                                             |  |                                      |              |    |  |
| <b>Catch Device Area (A<sub>CD</sub>)</b>            |                                             |                     |              | <b>in<sup>2</sup></b>                       |  | <b>Test Run Time (t<sub>R</sub>)</b> | <b>min</b>   |    |  |
| <b>Catch Device Volumes</b>                          |                                             |                     |              |                                             |  |                                      |              |    |  |
| 1                                                    | 25                                          | 17                  | 33           |                                             |  | 49                                   | 65           | 81 |  |
| 2                                                    | 45                                          | 18                  | 34           |                                             |  | 50                                   | 66           | 82 |  |
| 3                                                    | 70                                          | 19                  | 35           |                                             |  | 51                                   | 67           | 83 |  |
| 4                                                    | 80                                          | 20                  | 36           |                                             |  | 52                                   | 68           | 84 |  |
| 5                                                    | 45                                          | 21                  | 37           |                                             |  | 53                                   | 69           | 85 |  |
| 6                                                    | 50                                          | 22                  | 38           |                                             |  | 54                                   | 70           | 86 |  |
| 7                                                    | 55                                          | 23                  | 39           |                                             |  | 55                                   | 71           | 87 |  |
| 8                                                    | 40                                          | 24                  | 40           |                                             |  | 56                                   | 72           | 88 |  |
| 9                                                    | 25                                          | 25                  | 41           |                                             |  | 57                                   | 73           | 89 |  |
| 10                                                   | 25                                          | 26                  | 42           |                                             |  | 58                                   | 74           | 90 |  |
| 11                                                   | 25                                          | 27                  | 43           |                                             |  | 59                                   | 75           | 91 |  |
| 12                                                   | 30                                          | 28                  | 44           |                                             |  | 60                                   | 76           | 92 |  |
| 13                                                   | 15                                          | 29                  | 45           |                                             |  | 61                                   | 77           | 93 |  |
| 14                                                   | 25                                          | 30                  | 46           |                                             |  | 62                                   | 78           | 94 |  |
| 15                                                   | 25                                          | 31                  | 47           |                                             |  | 63                                   | 79           | 95 |  |
| 16                                                   | 25                                          | 32                  | 48           |                                             |  | 64                                   | 80           | 96 |  |
| <b>Number Catch Devices</b>                          |                                             |                     | <b>16</b>    | <b>1/4 Number Catch Devices</b>             |  |                                      | <b>4</b>     |    |  |
| <b>Total Catch Volume</b>                            |                                             |                     | <b>605</b>   | <b>Total Low Quarter</b>                    |  |                                      | <b>90</b>    |    |  |
| <b>Average Volume (V<sub>avg</sub>)</b>              |                                             |                     | <b>37.81</b> | <b>Average Low Quarter (V<sub>lq</sub>)</b> |  |                                      | <b>22.50</b> |    |  |
|                                                      |                                             |                     |              |                                             |  |                                      |              |    |  |
| <b>Calculate Distribution Uniformity</b>             |                                             |                     |              |                                             |  |                                      |              |    |  |
| <b>DU<sub>lq</sub> =</b>                             | <b>Average Low Quarter (V<sub>lq</sub>)</b> |                     | <b>=</b>     | <b>0.60</b>                                 |  |                                      |              |    |  |
|                                                      | <b>Average Volume (V<sub>avg</sub>)</b>     |                     |              |                                             |  |                                      |              |    |  |

|                                                      |                                         |                                             |    |                                             |                                      |              |     |    |
|------------------------------------------------------|-----------------------------------------|---------------------------------------------|----|---------------------------------------------|--------------------------------------|--------------|-----|----|
| <b>Project Name</b>                                  |                                         | <b>Amelia White</b>                         |    | <b>Date</b>                                 | <b>June 25, 2015</b>                 |              |     |    |
| <b>Address</b>                                       |                                         |                                             |    | <b>Auditor</b>                              | <b>Sam</b>                           |              |     |    |
| <b>City, State</b>                                   |                                         |                                             |    | <b>Area/Zone/Station</b>                    | <b>2.00</b>                          |              |     |    |
|                                                      |                                         |                                             |    |                                             |                                      |              |     |    |
| <b>See instructions below on clearing input area</b> |                                         |                                             |    |                                             |                                      |              |     |    |
| <b>Test Area/Station</b>                             |                                         |                                             |    | <b>2</b>                                    |                                      |              |     |    |
| <b>Catch Device Area (A<sub>CD</sub>)</b>            |                                         |                                             |    | in <sup>2</sup>                             | <b>Test Run Time (t<sub>r</sub>)</b> |              | min |    |
| <b>Catch Device Volumes</b>                          |                                         |                                             |    |                                             |                                      |              |     |    |
| 1                                                    | 10                                      | 17                                          | 10 | 33                                          | 49                                   | 65           |     | 81 |
| 2                                                    | 10                                      | 18                                          | 10 | 34                                          | 50                                   | 66           |     | 82 |
| 3                                                    | 15                                      | 19                                          | 5  | 35                                          | 51                                   | 67           |     | 83 |
| 4                                                    | 30                                      | 20                                          | 15 | 36                                          | 52                                   | 68           |     | 84 |
| 5                                                    | 85                                      | 21                                          | 25 | 37                                          | 53                                   | 69           |     | 85 |
| 6                                                    | 30                                      | 22                                          | 30 | 38                                          | 54                                   | 70           |     | 86 |
| 7                                                    | 25                                      | 23                                          |    | 39                                          | 55                                   | 71           |     | 87 |
| 8                                                    | 45                                      | 24                                          |    | 40                                          | 56                                   | 72           |     | 88 |
| 9                                                    | 35                                      | 25                                          |    | 41                                          | 57                                   | 73           |     | 89 |
| 10                                                   | 25                                      | 26                                          |    | 42                                          | 58                                   | 74           |     | 90 |
| 11                                                   | 25                                      | 27                                          |    | 43                                          | 59                                   | 75           |     | 91 |
| 12                                                   | 20                                      | 28                                          |    | 44                                          | 60                                   | 76           |     | 92 |
| 13                                                   | 15                                      | 29                                          |    | 45                                          | 61                                   | 77           |     | 93 |
| 14                                                   | 15                                      | 30                                          |    | 46                                          | 62                                   | 78           |     | 94 |
| 15                                                   | 15                                      | 31                                          |    | 47                                          | 63                                   | 79           |     | 95 |
| 16                                                   | 15                                      | 32                                          |    | 48                                          | 64                                   | 80           |     | 96 |
| <b>Number Catch Devices</b>                          |                                         | <b>22</b>                                   |    | <b>1/4 Number Catch Devices</b>             |                                      | <b>6</b>     |     |    |
| <b>Total Catch Volume</b>                            |                                         | <b>510</b>                                  |    | <b>Total Low Quarter</b>                    |                                      | <b>60</b>    |     |    |
| <b>Average Volume (V<sub>avg</sub>)</b>              |                                         | <b>23.18</b>                                |    | <b>Average Low Quarter (V<sub>lq</sub>)</b> |                                      | <b>10.00</b> |     |    |
|                                                      |                                         |                                             |    |                                             |                                      |              |     |    |
| <b>Calculate Distribution Uniformity</b>             |                                         |                                             |    |                                             |                                      |              |     |    |
| <b>DU<sub>lq</sub> =</b>                             |                                         | <b>Average Low Quarter (V<sub>lq</sub>)</b> |    | <b>=</b>                                    | <b>0.43</b>                          |              |     |    |
|                                                      | <b>Average Volume (V<sub>avg</sub>)</b> |                                             |    |                                             |                                      |              |     |    |



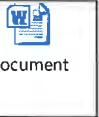
Calle Lorca

2075 CALLE LORCA

YEAR

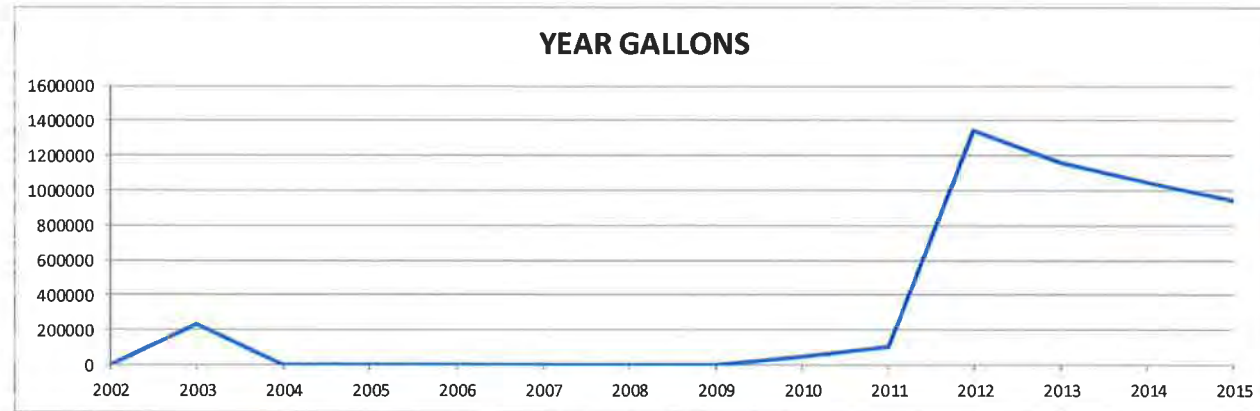
Account # Meter# Size Service Address  
360524 9958984 1 1/2" 31399

|      | JAN | FEB | MAR | APR   | MAY    | JUNE   | JULY   | AUG    | SEPT   | OCT    | NOV   | DEC | TOTAL YEAR GALLONS |
|------|-----|-----|-----|-------|--------|--------|--------|--------|--------|--------|-------|-----|--------------------|
| 2002 | 0   | 0   | 0   | 0     | 0      | 200    | 0      | 0      | 0      | 0      | 0     | 0   | 200                |
| 2003 | 0   | 0   | 0   | 200   | 400    | 3700   | 20400  | 41700  | 55300  | 67700  | 46900 | 0   | 236300             |
| 2004 | 0   | 0   | 0   | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0     | 0   | 0                  |
| 2005 | 0   | 0   | 0   | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 1300  | 0   | 1300               |
| 2006 | 0   | 0   | 0   | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0     | 0   | 0                  |
| 2007 | 0   | 0   | 0   | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0     | 0   | 0                  |
| 2008 | 0   | 0   | 0   | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0     | 0   | 0                  |
| 2009 | 0   | 0   | 0   | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0     | 0   | 0                  |
| 2010 | 0   | 0   | 0   | 0     | 0      | 0      | 0      | 0      | 14500  | 19800  | 14300 | 0   | 48600              |
| 2011 | 0   | 0   | 0   | 0     | 0      | 0      | 0      | 0      | 3000   | 66200  | 39500 | 0   | 108700             |
| 2012 | 0   | 0   | 0   | 35400 | 304400 | 207400 | 204000 | 216000 | 216500 | 119500 | 44600 | 0   | 1347800            |
| 2013 | 0   | 0   | 0   | 46500 | 168800 | 236000 | 242500 | 114100 | 246400 | 107900 | 0     | 0   | 1162200            |
| 2014 | 0   | 0   | 0   | 24400 | 154400 | 179900 | 220100 | 124400 | 196700 | 121500 | 27500 | 0   | 1048900            |
| 2015 | 0   | 0   | 0   | 2600  | 117200 | 122600 | 160500 | 154800 | 192100 | 173600 | 17500 | 0   | 940900             |



Document

DU = 58.3%



Meter failure December 2003, replaced 2010 again in 2011.

|                                                      |                                             |                    |          |                                             |                                      |              |     |    |
|------------------------------------------------------|---------------------------------------------|--------------------|----------|---------------------------------------------|--------------------------------------|--------------|-----|----|
| <b>Project Name</b>                                  |                                             | <b>Calle Lorca</b> |          | <b>Date</b>                                 | <b>June 22, 2015</b>                 |              |     |    |
| <b>Address</b>                                       |                                             |                    |          | <b>Auditor</b>                              |                                      |              |     |    |
| <b>City, State</b>                                   |                                             |                    |          | <b>Area/Zone/Station</b>                    |                                      |              |     |    |
|                                                      |                                             |                    |          |                                             |                                      |              |     |    |
|                                                      |                                             |                    |          |                                             |                                      |              |     |    |
| <b>See instructions below on clearing input area</b> |                                             |                    |          |                                             |                                      |              |     |    |
| <b>Test Area/Station</b>                             |                                             |                    |          | <b>0</b>                                    |                                      |              |     |    |
| <b>Catch Device Area (A<sub>cd</sub>)</b>            |                                             |                    |          | in <sup>2</sup>                             | <b>Test Run Time (t<sub>r</sub>)</b> |              | min |    |
| <b>Catch Device Volumes</b>                          |                                             |                    |          |                                             |                                      |              |     |    |
| 1                                                    | 50                                          | 17                 | 25       | 33                                          | 35                                   | 49           | 65  | 81 |
| 2                                                    | 70                                          | 18                 | 55       | 34                                          |                                      | 50           | 66  | 82 |
| 3                                                    | 75                                          | 19                 | 75       | 35                                          |                                      | 51           | 67  | 83 |
| 4                                                    | 70                                          | 20                 | 60       | 36                                          |                                      | 52           | 68  | 84 |
| 5                                                    | 55                                          | 21                 | 60       | 37                                          |                                      | 53           | 69  | 85 |
| 6                                                    | 45                                          | 22                 | 50       | 38                                          |                                      | 54           | 70  | 86 |
| 7                                                    | 30                                          | 23                 | 30       | 39                                          |                                      | 55           | 71  | 87 |
| 8                                                    | 50                                          | 24                 | 45       | 40                                          |                                      | 56           | 72  | 88 |
| 9                                                    | 60                                          | 25                 | 35       | 41                                          |                                      | 57           | 73  | 89 |
| 10                                                   | 60                                          | 26                 | 25       | 42                                          |                                      | 58           | 74  | 90 |
| 11                                                   | 75                                          | 27                 | 25       | 43                                          |                                      | 59           | 75  | 91 |
| 12                                                   | 50                                          | 28                 | 20       | 44                                          |                                      | 60           | 76  | 92 |
| 13                                                   | 55                                          | 29                 | 10       | 45                                          |                                      | 61           | 77  | 93 |
| 14                                                   | 45                                          | 30                 | 10       | 46                                          |                                      | 62           | 78  | 94 |
| 15                                                   | 60                                          | 31                 | 60       | 47                                          |                                      | 63           | 79  | 95 |
| 16                                                   | 20                                          | 32                 | 55       | 48                                          |                                      | 64           | 80  | 96 |
| <b>Number Catch Devices</b>                          |                                             | <b>33</b>          |          | <b>1/4 Number Catch Devices</b>             |                                      | <b>9</b>     |     |    |
| <b>Total Catch Volume</b>                            |                                             | <b>1545</b>        |          | <b>Total Low Quarter</b>                    |                                      | <b>195</b>   |     |    |
| <b>Average Volume (V<sub>avg</sub>)</b>              |                                             | <b>46.82</b>       |          | <b>Average Low Quarter (V<sub>lq</sub>)</b> |                                      | <b>21.67</b> |     |    |
|                                                      |                                             |                    |          |                                             |                                      |              |     |    |
| <b>Calculate Distribution Uniformity</b>             |                                             |                    |          |                                             |                                      |              |     |    |
| <b>DU<sub>lq</sub> =</b>                             | <b>Average Low Quarter (V<sub>lq</sub>)</b> |                    | <b>=</b> | <b>0.46</b>                                 |                                      |              |     |    |
|                                                      | <b>Average Volume (V<sub>avg</sub>)</b>     |                    |          |                                             |                                      |              |     |    |

|                                                      |    |                                             |    |                                             |                                      |              |    |
|------------------------------------------------------|----|---------------------------------------------|----|---------------------------------------------|--------------------------------------|--------------|----|
| <b>Project Name</b>                                  |    | <b>Calle Lorca</b>                          |    | <b>Date</b>                                 | <b>June 22, 2015</b>                 |              |    |
| <b>Address</b>                                       |    |                                             |    | <b>Auditor</b>                              |                                      |              |    |
| <b>City, State</b>                                   |    |                                             |    | <b>Area/Zone/Station</b>                    | <b>3.00</b>                          |              |    |
|                                                      |    |                                             |    |                                             |                                      |              |    |
| <b>See instructions below on clearing input area</b> |    |                                             |    |                                             |                                      |              |    |
| <b>Test Area/Station</b>                             |    |                                             |    | <b>3</b>                                    |                                      |              |    |
| <b>Catch Device Area (AcD)</b>                       |    |                                             |    | in <sup>2</sup>                             | <b>Test Run Time (t<sub>R</sub>)</b> | min          |    |
| <b>Catch Device Volumes</b>                          |    |                                             |    |                                             |                                      |              |    |
| 1                                                    | 30 | 17                                          | 15 | 33                                          | 49                                   | 65           | 81 |
| 2                                                    | 20 | 18                                          | 15 | 34                                          | 50                                   | 66           | 82 |
| 3                                                    | 20 | 19                                          | 10 | 35                                          | 51                                   | 67           | 83 |
| 4                                                    | 15 | 20                                          | 15 | 36                                          | 52                                   | 68           | 84 |
| 5                                                    | 30 | 21                                          | 25 | 37                                          | 53                                   | 69           | 85 |
| 6                                                    | 30 | 22                                          | 40 | 38                                          | 54                                   | 70           | 86 |
| 7                                                    | 25 | 23                                          | 10 | 39                                          | 55                                   | 71           | 87 |
| 8                                                    | 25 | 24                                          | 15 | 40                                          | 56                                   | 72           | 88 |
| 9                                                    | 20 | 25                                          |    | 41                                          | 57                                   | 73           | 89 |
| 10                                                   | 5  | 26                                          |    | 42                                          | 58                                   | 74           | 90 |
| 11                                                   | 25 | 27                                          |    | 43                                          | 59                                   | 75           | 91 |
| 12                                                   | 20 | 28                                          |    | 44                                          | 60                                   | 76           | 92 |
| 13                                                   | 30 | 29                                          |    | 45                                          | 61                                   | 77           | 93 |
| 14                                                   | 30 | 30                                          |    | 46                                          | 62                                   | 78           | 94 |
| 15                                                   | 20 | 31                                          |    | 47                                          | 63                                   | 79           | 95 |
| 16                                                   | 15 | 32                                          |    | 48                                          | 64                                   | 80           | 96 |
| <b>Number Catch Devices</b>                          |    | <b>24</b>                                   |    | <b>1/4 Number Catch Devices</b>             |                                      | <b>6</b>     |    |
| <b>Total Catch Volume</b>                            |    | <b>505</b>                                  |    | <b>Total Low Quarter</b>                    |                                      | <b>70</b>    |    |
| <b>Average Volume (V<sub>avg</sub>)</b>              |    | <b>21.04</b>                                |    | <b>Average Low Quarter (V<sub>lq</sub>)</b> |                                      | <b>11.67</b> |    |
|                                                      |    |                                             |    |                                             |                                      |              |    |
| <b>Calculate Distribution Uniformity</b>             |    |                                             |    |                                             |                                      |              |    |
| <b>DU<sub>lq</sub> =</b>                             |    | <b>Average Low Quarter (V<sub>lq</sub>)</b> |    | <b>=</b>                                    | <b>0.55</b>                          |              |    |
|                                                      |    | <b>Average Volume (V<sub>avg</sub>)</b>     |    |                                             |                                      |              |    |



Address  
City, State

Auditor  
Area/Zone/Station

See instructions below on clearing input area

| Test Area/Station              |    |    |    | 5  |                 | Test Run Time<br>( $t_R$ ) |
|--------------------------------|----|----|----|----|-----------------|----------------------------|
| Catch Device Area ( $A_{CD}$ ) |    |    |    |    | in <sup>2</sup> |                            |
| Catch Device Volumes           |    |    |    |    |                 |                            |
| 1                              | 30 | 17 | 25 | 33 | 20              | 49                         |
| 2                              | 35 | 18 | 60 | 34 | 25              | 50                         |
| 3                              | 20 | 19 | 55 | 35 | 25              | 51                         |
| 4                              | 25 | 20 | 75 | 36 | 30              | 52                         |
| 5                              | 30 | 21 | 50 | 37 |                 | 53                         |
| 6                              | 40 | 22 | 45 | 38 |                 | 54                         |
| 7                              | 50 | 23 | 30 | 39 |                 | 55                         |
| 8                              | 50 | 24 | 30 | 40 |                 | 56                         |
| 9                              | 35 | 25 | 30 | 41 |                 | 57                         |
| 10                             | 25 | 26 | 30 | 42 |                 | 58                         |
| 11                             | 30 | 27 | 25 | 43 |                 | 59                         |
| 12                             | 30 | 28 | 35 | 44 |                 | 60                         |
| 13                             | 40 | 29 | 25 | 45 |                 | 61                         |
| 14                             | 30 | 30 | 25 | 46 |                 | 62                         |
| 15                             | 90 | 31 | 20 | 47 |                 | 63                         |
| 16                             | 55 | 32 | 25 | 48 |                 | 64                         |

|                              |  |  |       |                                                    |  |
|------------------------------|--|--|-------|----------------------------------------------------|--|
| Number Catch Devices         |  |  | 36    | 1/4 Number Catch Devices                           |  |
| Total Catch Volume           |  |  | 1300  | Total Low Quarter Average Low Quarter ( $V_{LQ}$ ) |  |
| Average Volume ( $V_{avg}$ ) |  |  | 36.11 |                                                    |  |

Calculate Distribution Uniformity

Average Low Quarter ( $V_{LQ}$ )

=

0.65

Average Volume ( $V_{avg}$ )

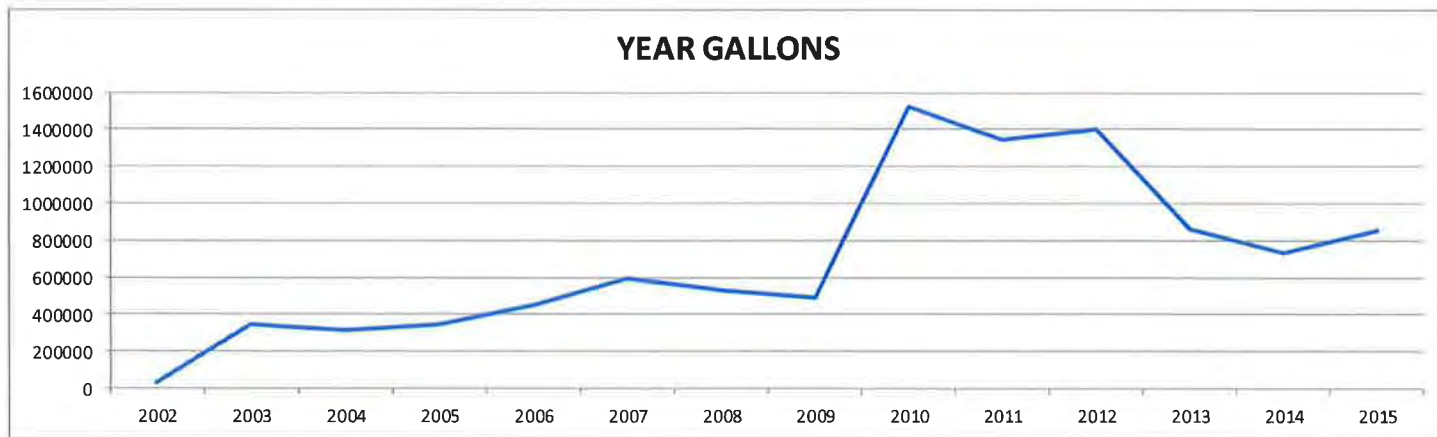
|                                                      |                                             |                    |          |                                            |                                      |     |    |
|------------------------------------------------------|---------------------------------------------|--------------------|----------|--------------------------------------------|--------------------------------------|-----|----|
| <b>Project Name</b>                                  |                                             | <b>Calle lorca</b> |          | <b>Date</b>                                | <b>June 22, 2015</b>                 |     |    |
| <b>Address</b>                                       |                                             |                    |          | <b>Auditor</b>                             |                                      |     |    |
| <b>City, State</b>                                   |                                             |                    |          | <b>Area/Zone/Station</b>                   | <b>7.00</b>                          |     |    |
| <b>See instructions below on clearing input area</b> |                                             |                    |          |                                            |                                      |     |    |
| <b>Test Area/Station</b>                             |                                             |                    |          | <b>7</b>                                   |                                      |     |    |
| <b>Catch Device Area (Ac<sub>d</sub>)</b>            |                                             |                    |          | in <sup>2</sup>                            | <b>Test Run Time (t<sub>0</sub>)</b> | min |    |
| <b>Catch Device Volumes</b>                          |                                             |                    |          |                                            |                                      |     |    |
| 1                                                    | 15                                          | 17                 | 15       | 33                                         | 49                                   | 65  | 81 |
| 2                                                    | 20                                          | 18                 | 20       | 34                                         | 50                                   | 66  | 82 |
| 3                                                    | 15                                          | 19                 | 30       | 35                                         | 51                                   | 67  | 83 |
| 4                                                    | 15                                          | 20                 | 25       | 36                                         | 52                                   | 68  | 84 |
| 5                                                    | 15                                          | 21                 | 30       | 37                                         | 53                                   | 69  | 85 |
| 6                                                    | 15                                          | 22                 | 45       | 38                                         | 54                                   | 70  | 86 |
| 7                                                    | 10                                          | 23                 | 30       | 39                                         | 55                                   | 71  | 87 |
| 8                                                    | 10                                          | 24                 | 20       | 40                                         | 56                                   | 72  | 88 |
| 9                                                    | 10                                          | 25                 | 20       | 41                                         | 57                                   | 73  | 89 |
| 10                                                   | 10                                          | 26                 | 20       | 42                                         | 58                                   | 74  | 90 |
| 11                                                   | 35                                          | 27                 | 25       | 43                                         | 59                                   | 75  | 91 |
| 12                                                   | 40                                          | 28                 | 30       | 44                                         | 60                                   | 76  | 92 |
| 13                                                   | 15                                          | 29                 | 25       | 45                                         | 61                                   | 77  | 93 |
| 14                                                   | 20                                          | 30                 | 20       | 46                                         | 62                                   | 78  | 94 |
| 15                                                   | 25                                          | 31                 | 25       | 47                                         | 63                                   | 79  | 95 |
| 16                                                   | 15                                          | 32                 | 25       | 48                                         | 64                                   | 80  | 96 |
| <b>Number Catch Devices</b>                          | <b>32</b>                                   |                    |          | <b>1/4 Number Catch Devices</b>            | <b>8</b>                             |     |    |
| <b>Total Catch Volume</b>                            | <b>690</b>                                  |                    |          | <b>Total Low Quarter</b>                   | <b>100</b>                           |     |    |
| <b>Average Volume (V<sub>avg</sub>)</b>              | <b>21.56</b>                                |                    |          | <b>Average Low Quarter (V<sub>0</sub>)</b> | <b>12.50</b>                         |     |    |
| <b>Calculate Distribution Uniformity</b>             |                                             |                    |          |                                            |                                      |     |    |
| <b>DU<sub>10</sub> =</b>                             | <b>Average Low Quarter (V<sub>10</sub>)</b> |                    | <b>=</b> | <b>0.58</b>                                |                                      |     |    |
|                                                      | <b>Average Volume (V<sub>avg</sub>)</b>     |                    |          |                                            |                                      |     |    |

|                                                      |                                                  |                    |          |                                                  |                                         |              |    |
|------------------------------------------------------|--------------------------------------------------|--------------------|----------|--------------------------------------------------|-----------------------------------------|--------------|----|
| <b>Project Name</b>                                  |                                                  | <b>Calle Lorca</b> |          | <b>Date</b>                                      | <b>June 22, 2015</b>                    |              |    |
| <b>Address</b>                                       |                                                  |                    |          | <b>Auditor</b>                                   |                                         |              |    |
| <b>City, State</b>                                   |                                                  |                    |          | <b>Area/Zone/Station</b>                         | <b>9.00</b>                             |              |    |
| <b>See instructions below on clearing input area</b> |                                                  |                    |          |                                                  |                                         |              |    |
| <b>Test Area/Station</b>                             |                                                  |                    |          | <b>9</b>                                         |                                         |              |    |
| <b>Catch Device Area (<math>A_{cd}</math>)</b>       |                                                  |                    |          | $\text{in}^2$                                    | <b>Test Run Time (<math>t_R</math>)</b> | $\text{min}$ |    |
| <b>Catch Device Volumes</b>                          |                                                  |                    |          |                                                  |                                         |              |    |
| 1                                                    | 50                                               | 17                 | 20       | 33                                               | 49                                      | 65           | 81 |
| 2                                                    | 25                                               | 18                 | 30       | 34                                               | 50                                      | 66           | 82 |
| 3                                                    | 20                                               | 19                 | 50       | 35                                               | 51                                      | 67           | 83 |
| 4                                                    | 30                                               | 20                 | 50       | 36                                               | 52                                      | 68           | 84 |
| 5                                                    | 45                                               | 21                 | 35       | 37                                               | 53                                      | 69           | 85 |
| 6                                                    | 25                                               | 22                 | 30       | 38                                               | 54                                      | 70           | 86 |
| 7                                                    | 35                                               | 23                 | 20       | 39                                               | 55                                      | 71           | 87 |
| 8                                                    | 30                                               | 24                 | 20       | 40                                               | 56                                      | 72           | 88 |
| 9                                                    | 35                                               | 25                 | 30       | 41                                               | 57                                      | 73           | 89 |
| 10                                                   | 20                                               | 26                 | 50       | 42                                               | 58                                      | 74           | 90 |
| 11                                                   | 20                                               | 27                 |          | 43                                               | 59                                      | 75           | 91 |
| 12                                                   | 30                                               | 28                 |          | 44                                               | 60                                      | 76           | 92 |
| 13                                                   | 22                                               | 29                 |          | 45                                               | 61                                      | 77           | 93 |
| 14                                                   | 25                                               | 30                 |          | 46                                               | 62                                      | 78           | 94 |
| 15                                                   | 25                                               | 31                 |          | 47                                               | 63                                      | 79           | 95 |
| 16                                                   | 20                                               | 32                 |          | 48                                               | 64                                      | 80           | 96 |
| <b>Number Catch Devices</b>                          | <b>26</b>                                        |                    |          | <b>1/4 Number Catch Devices</b>                  | <b>7</b>                                |              |    |
| <b>Total Catch Volume</b>                            | <b>792</b>                                       |                    |          | <b>Total Low Quarter</b>                         | <b>140</b>                              |              |    |
| <b>Average Volume (<math>V_{avg}</math>)</b>         | <b>30.46</b>                                     |                    |          | <b>Average Low Quarter (<math>V_{lq}</math>)</b> | <b>20.00</b>                            |              |    |
| <b>Calculate Distribution Uniformity</b>             |                                                  |                    |          |                                                  |                                         |              |    |
| <b><math>DU_{LQ} =</math></b>                        | <b>Average Low Quarter (<math>V_{lq}</math>)</b> |                    | <b>=</b> | <b>0.66</b>                                      |                                         |              |    |
|                                                      | <b>Average Volume (<math>V_{avg}</math>)</b>     |                    |          |                                                  |                                         |              |    |

DeVargas West

360612 9947493 2" 31394

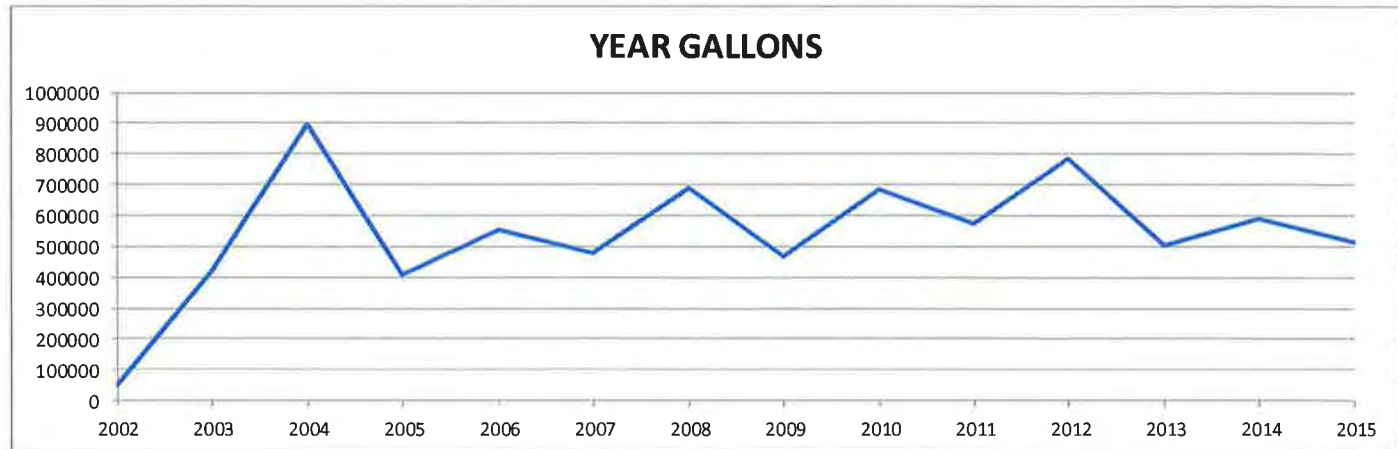
| YEAR | JAN | FEB | MAR   | APR   | MAY    | JUNE   | JULY   | AUG    | SEPT   | OCT    | NOV   | DEC | TOTAL YEAR GALLONS |         |
|------|-----|-----|-------|-------|--------|--------|--------|--------|--------|--------|-------|-----|--------------------|---------|
| 2002 | 0   | 0   | 0     | 0     | 0      | 32200  | 0      | 0      | 0      | 0      | 0     | 0   | 0                  | 32200   |
| 2003 | 0   | 0   | 0     | 0     | 1100   | 66400  | 103500 | 98000  | 33200  | 38200  | 8000  | 0   | 0                  | 348400  |
| 2004 | 0   | 0   | 0     | 1100  | 25600  | 60100  | 67300  | 52500  | 38100  | 64500  | 3600  | 0   | 0                  | 312800  |
| 2005 | 0   | 0   | 0     | 5700  | 44300  | 234200 | 66400  | 0      | 0      | 0      | 0     | 0   | 0                  | 350600  |
| 2006 | 0   | 0   | 0     | 0     | 0      | 257700 | 52300  | 51200  | 40100  | 39300  | 12800 | 0   | 0                  | 453400  |
| 2007 | 0   | 0   | 0     | 10200 | 78800  | 60200  | 154200 | 87100  | 111400 | 84700  | 11800 | 0   | 0                  | 598400  |
| 2008 | 0   | 0   | 0     | 800   | 109000 | 136400 | 95400  | 74300  | 47600  | 72000  | 0     | 0   | 0                  | 535500  |
| 2009 | 0   | 0   | 22500 | 19500 | 84200  | 69500  | 105800 | 91400  | 68700  | 31000  | 0     | 0   | 0                  | 492600  |
| 2010 | 0   | 100 | 0     | 23000 | 168100 | 182700 | 410300 | 125000 | 289100 | 305200 | 18800 | 0   | 0                  | 1522300 |
| 2011 | 0   | 0   | 0     | 19400 | 209000 | 221400 | 301200 | 298600 | 168800 | 109100 | 16800 | 0   | 0                  | 1344300 |
| 2012 | 0   | 0   | 0     | 30200 | 184900 | 189600 | 327300 | 410800 | 159600 | 85600  | 11400 | 0   | 0                  | 1399400 |
| 2013 | 0   | 0   | 0     | 86900 | 131800 | 158900 | 207900 | 84300  | 126000 | 42500  | 22400 | 0   | 0                  | 860700  |
| 2014 | 0   | 0   | 0     | 18800 | 127400 | 138700 | 138200 | 132900 | 112800 | 59900  | 3300  | 0   | 0                  | 732000  |
| 2015 | 0   | 0   | 0     | 900   | 84400  | 92900  | 153400 | 142400 | 192600 | 180100 | 12200 | 0   | 0                  | 858900  |



DeVargas East

Account # Meter # Size Service Address  
430393 9933780 2" 31393

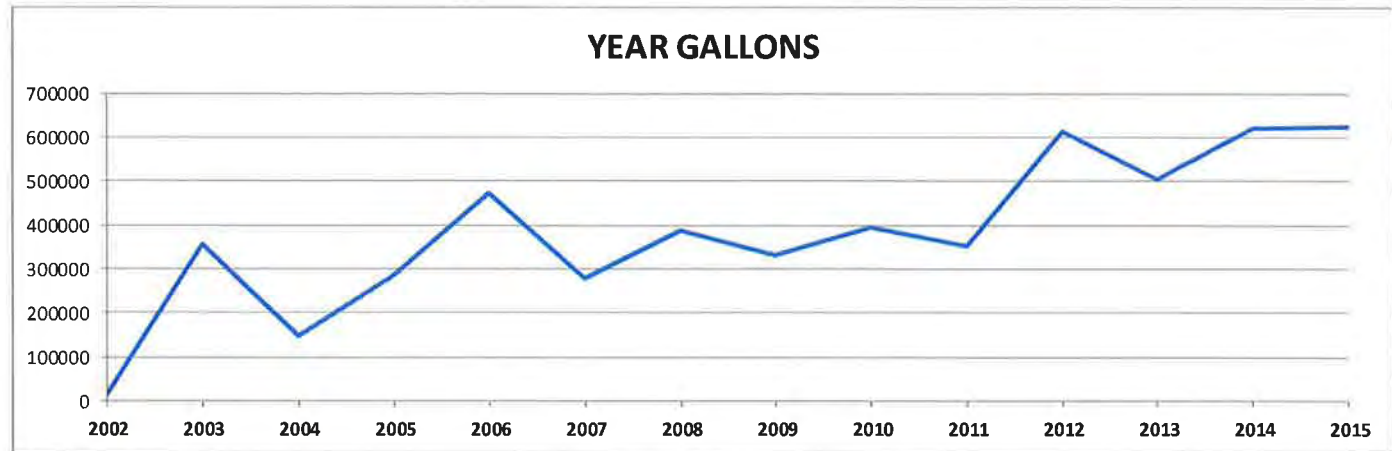
| YEAR | JAN | FEB | MAR | APR  | MAY   | JUNE   | JULY   | AUG    | SEPT   | OCT    | NOV    | DEC    | TOTAL YEAR GALLONS |        |
|------|-----|-----|-----|------|-------|--------|--------|--------|--------|--------|--------|--------|--------------------|--------|
| 2002 |     | 0   | 0   | 0    | 14500 | 34400  | 0      | 0      | 0      | 0      | 0      | 100    | 0                  | 49000  |
| 2003 |     | 0   | 0   | 0    | 0     | 7600   | 76400  | 71200  | 64600  | 71600  | 69300  | 58200  | 0                  | 418900 |
| 2004 |     | 0   | 0   | 0    | 48500 | 39800  | 233200 | 153400 | 109900 | 119200 | 130000 | 64200  | 0                  | 898200 |
| 2005 |     | 0   | 0   | 0    | 8000  | 28100  | 107400 | 117000 | 76200  | 47300  | 18400  | 8400   | 0                  | 410800 |
| 2006 |     | 0   | 0   | 0    | 83800 | 53300  | 149200 | 127900 | 86300  | 38500  | 16200  | 0      | 0                  | 555200 |
| 2007 |     | 0   | 0   | 0    | 20500 | 45500  | 42100  | 129100 | 58200  | 124000 | 52300  | 5100   | 0                  | 476800 |
| 2008 |     | 0   | 0   | 0    | 2000  | 34400  | 93200  | 195900 | 132500 | 125600 | 77600  | 30100  | 0                  | 691300 |
| 2009 |     | 0   | 0   | 1400 | 13500 | 36600  | 119400 | 88200  | 113700 | 73000  | 21800  | 700    | 0                  | 468300 |
| 2010 |     | 0   | 0   | 0    | 45000 | 112700 | 0      | 0      | 0      | 0      | 0      | 530000 | 0                  | 687700 |
| 2011 |     | 0   | 0   | 0    | 33700 | 1037   | 87600  | 153100 | 175200 | 58500  | 56300  | 7800   | 0                  | 573237 |
| 2012 |     | 0   | 0   | 0    | 41800 | 70800  | 112200 | 142400 | 157300 | 110700 | 96100  | 56900  | 0                  | 788200 |
| 2013 |     | 0   | 0   | 0    | 19900 | 93900  | 100500 | 138200 | 24600  | 97500  | 24400  | 6900   | 0                  | 505900 |
| 2014 |     | 0   | 0   | 0    | 23000 | 76900  | 122800 | 113900 | 79900  | 97900  | 71800  | 2900   | 0                  | 589100 |
| 2015 |     | 0   | 0   | 0    | 4300  | 46000  | 47300  | 100400 | 89200  | 88800  | 125900 | 11300  | 0                  | 513200 |



Galisteo Tennis Courts

Account # Meter # Size Service Address  
360604 9916072 2" 31395

| YEAR | JAN | FEB | MAR  | APR   | MAY   | JUNE   | JULY   | AUG    | SEPT   | OCT    | NOV    | DEC | TOTAL YEAR GALLONS |
|------|-----|-----|------|-------|-------|--------|--------|--------|--------|--------|--------|-----|--------------------|
| 2002 | 0   | 0   | 0    | 300   | 100   | 100    | 400    | 500    | 0      | 4500   | 9800   | 0   | 15700              |
| 2003 | 0   | 0   | 0    | 16200 | 25100 | 29700  | 166900 | 56600  | 22700  | 32400  | 7500   | 0   | 357100             |
| 2004 | 0   | 0   | 0    | 0     | 57200 | 48200  | 25700  | 6100   | 10300  | 0      | 0      | 0   | 147500             |
| 2005 | 0   | 0   | 0    | 100   | 7200  | 82200  | 0      | 0      | 0      | 0      | 196000 | 0   | 285500             |
| 2006 | 0   | 0   | 3300 | 600   | 1000  | 323600 | 63300  | 23900  | 0      | 28100  | 28600  | 0   | 472400             |
| 2007 | 0   | 0   | 0    | 0     | 21200 | 37300  | 0      | 0      | 0      | 0      | 219600 | 0   | 278100             |
| 2008 | 0   | 0   | 0    | 2800  | 63100 | 127800 | 52100  | 33700  | 36800  | 56200  | 16900  | 0   | 389400             |
| 2009 | 0   | 0   | 0    | 2700  | 97300 | 43300  | 61900  | 69200  | 43300  | 8700   | 6000   | 0   | 332400             |
| 2010 | 0   | 0   | 0    | 19400 | 29000 | 47600  | 123000 | 12100  | 70900  | 77500  | 14300  | 0   | 393800             |
| 2011 | 0   | 0   | 0    | 7100  | 6100  | 17000  | 30100  | 0      | 0      | 0      | 293000 | 0   | 353300             |
| 2012 | 0   | 0   | 0    | 13200 | 41800 | 61000  | 136900 | 88800  | 136900 | 121600 | 12500  | 0   | 612700             |
| 2013 | 0   | 0   | 0    | 18800 | 89000 | 81200  | 105000 | 69300  | 95300  | 46000  | 0      | 0   | 504600             |
| 2014 | 0   | 0   | 0    | 15400 | 68400 | 80000  | 122600 | 85000  | 123300 | 100200 | 25500  | 0   | 620400             |
| 2015 | 0   | 0   | 0    | 16000 | 42300 | 97200  | 118800 | 128600 | 108300 | 113100 | 0      | 0   | 624300             |

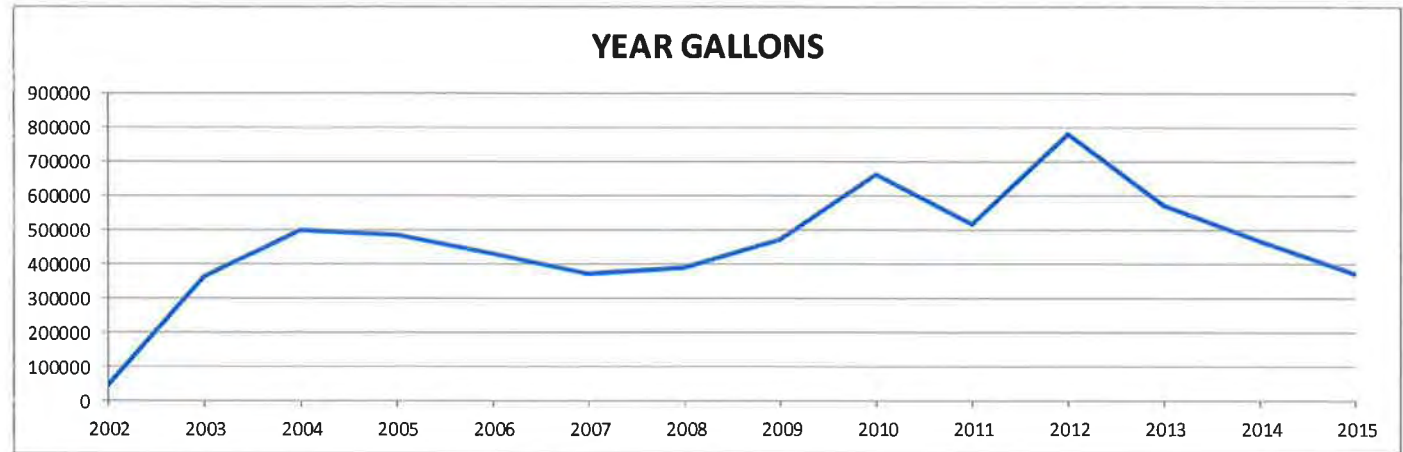




Orlando Fernandez

Account # Meter # Size Service Address  
360516 9922356 1 1/2" 31400

| YEAR | JAN | FEB | MAR | APR   | MAY    | JUNE   | JULY   | AUG    | SEPT   | OCT    | NOV   | DEC | TOTAL YEAR GALLONS |
|------|-----|-----|-----|-------|--------|--------|--------|--------|--------|--------|-------|-----|--------------------|
| 2002 | 0   | 0   | 0   | 0     | 0      | 44400  | 0      | 0      | 0      | 0      | 0     | 0   | 44400              |
| 2003 | 0   | 0   | 0   | 460   | 48000  | 88100  | 89300  | 68400  | 11800  | 36700  | 19600 | 0   | 362360             |
| 2004 | 0   | 0   | 0   | 5800  | 71500  | 108300 | 91500  | 75000  | 99300  | 46300  | 0     | 0   | 497700             |
| 2005 | 0   | 0   | 0   | 19100 | 46300  | 118400 | 97000  | 104500 | 81300  | 13600  | 4900  | 0   | 485100             |
| 2006 | 0   | 0   | 0   | 81300 | 65800  | 80800  | 66300  | 57900  | 39800  | 39300  | 0     | 0   | 431200             |
| 2007 | 0   | 0   | 0   | 26500 | 53400  | 48400  | 78900  | 47800  | 111900 | 6400   | 0     | 0   | 373300             |
| 2008 | 0   | 0   | 0   | 27400 | 46400  | 113900 | 52900  | 46700  | 50200  | 53000  | 0     | 0   | 390500             |
| 2009 | 0   | 0   | 0   | 9900  | 33900  | 67900  | 79300  | 102100 | 98300  | 79000  | 0     | 0   | 470400             |
| 2010 | 0   | 0   | 0   | 8400  | 61900  | 115000 | 133600 | 81000  | 133200 | 102100 | 29300 | 0   | 664500             |
| 2011 | 0   | 0   | 0   | 0     | 0      | 0      | 0      | 420500 | 10600  | 83800  | 2300  | 0   | 517200             |
| 2012 | 0   | 0   | 0   | 32500 | 67600  | 108400 | 165100 | 164200 | 125500 | 96400  | 20700 | 0   | 780400             |
| 2013 | 0   | 0   | 0   | 27400 | 101700 | 115600 | 110500 | 65300  | 112600 | 37500  | 0     | 0   | 570600             |
| 2014 | 0   | 0   | 0   | 8700  | 61100  | 75700  | 124900 | 15700  | 100300 | 74200  | 6800  | 0   | 467400             |
| 2015 | 0   | 0   | 0   | 500   | 43500  | 36800  | 66800  | 66300  | 79100  | 73600  | 6100  | 0   | 372700             |

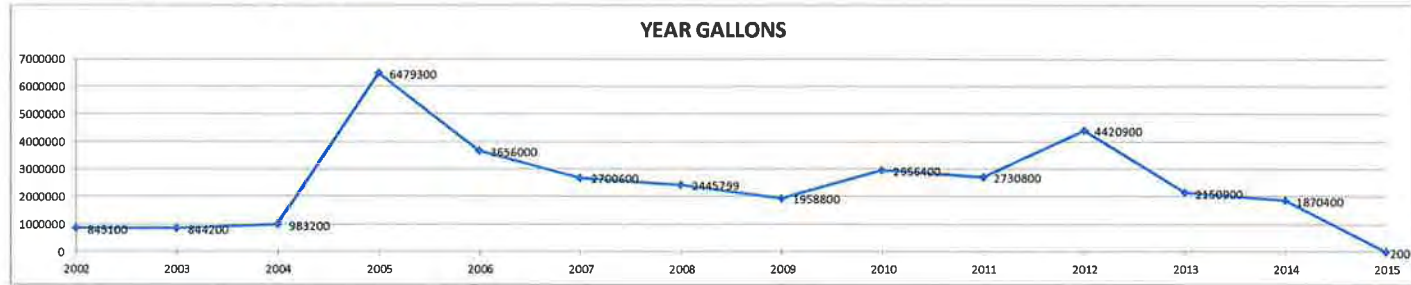


Patrick Smith

Account # Meter # Size Service Address  
369191 99370871/2 4" & 4" 31017

YEAR

| YEAR | JAN A | JAN B  | FEB A | FEB B  | MAR A | MAR B | APR A | APR B  | MAY A | MAY B   | JUNE A | JUNE B  | JULY A | JULY B  | AUG A  | AUG B  | SEPT A | SEPT B  | OCT A | OCT B  | NOV A | NOV B  | DEC A | DEC B | TOTAL YEAR GALLONS |
|------|-------|--------|-------|--------|-------|-------|-------|--------|-------|---------|--------|---------|--------|---------|--------|--------|--------|---------|-------|--------|-------|--------|-------|-------|--------------------|
| 2002 | 26100 | 235800 | 61200 | 406900 | 4000  | 0     | 16300 | 0      | 16800 | 0       | 12500  | 0       | 14200  | 0       | 14000  | 0      | 15600  | 0       | 11700 | 0      | 9700  | 300    | 0     | 0     | 845100             |
| 2003 | 0     | 0      | 0     | 0      | 100   | 0     | 9300  | 1000   | 2400  | 3500    | 11900  | 106500  | 13400  | 140000  | 11800  | 123700 | 10300  | 103300  | 10600 | 104000 | 38300 | 154100 | 0     | 0     | 844200             |
| 2004 | 0     | 0      | 0     | 0      | 0     | 0     | 1000  | 0      | 2300  | 83200   | 17000  | 82200   | 15700  | 139500  | 17400  | 160700 | 15900  | 154700  | 16800 | 156000 | 17700 | 84400  | 18700 | 0     | 983200             |
| 2005 | 20300 | 0      | 19900 | 0      | 13300 | 0     | 19300 | 124600 | 64600 | 1204300 | 87500  | 969000  | 73800  | 1331400 | 63600  | 809000 | 70400  | 1191100 | 20500 | 395300 | 0     | 1100   | 0     | 300   | 6479300            |
| 2006 | 75200 | 0      | 16900 | 0      | 7100  | 0     | 0     | 0      | 50600 | 0       | 56800  | 1406600 | 45500  | 691500  | 72300  | 677000 | 18200  | 221300  | 19300 | 247000 | 6700  | 39000  | 5000  | 0     | 3656000            |
| 2007 | 2300  | 0      | 2400  | 0      | 2400  | 0     | 3900  | 39800  | 6100  | 198200  | 68700  | 416800  | 39100  | 314700  | 53700  | 421700 | 62000  | 489700  | 64800 | 513700 | 200   | 400    | 0     | 0     | 2700600            |
| 2008 | 0     | 0      | 0     | 0      | 0     | 0     | 59900 | 12600  | 38900 | 299900  | 53400  | 450400  | 43600  | 359800  | 45000  | 378000 | 41400  | 339300  | 37200 | 280700 | 0     | 0      | 5400  | 299   | 2445799            |
| 2009 | 0     | 0      | 0     | 0      | 2300  | 1200  | 25600 | 101800 | 29200 | 271600  | 22000  | 235100  | 58000  | 324100  | 72000  | 348600 | 60300  | 283100  | 0     | 123900 | 0     | 0      | 0     | 0     | 1958800            |
| 2010 | 0     | 0      | 0     | 0      | 0     | 0     | 27300 | 25400  | 30400 | 164800  | 26900  | 345500  | 214300 | 766500  | 70800  | 189800 | 25500  | 516900  | 72500 | 274400 | 93200 | 112200 | 0     | 0     | 2956400            |
| 2011 | 0     | 0      | 0     | 0      | 0     | 0     | 15800 | 183400 | 43600 | 211000  | 69400  | 332200  | 96000  | 426700  | 137200 | 775500 | 31200  | 167700  | 29300 | 153000 | 5200  | 53600  | 0     | 0     | 2730800            |
| 2012 | 0     | 0      | 0     | 0      | 0     | 0     | 16200 | 59800  | 56500 | 201100  | 81500  | 360700  | 157700 | 1731300 | 98000  | 588400 | 86000  | 420600  | 79900 | 359800 | 22800 | 100600 | 0     | 0     | 4420900            |
| 2013 | 0     | 0      | 0     | 0      | 0     | 0     | 2100  | 0      | 55300 | 249500  | 93000  | 435200  | 138600 | 530400  | 12500  | 201800 | 61200  | 275600  | 15100 | 71500  | 3000  | 6100   | 0     | 0     | 2150900            |
| 2014 | 0     | 0      | 0     | 0      | 0     | 0     | 300   | 1600   | 43600 | 213000  | 57700  | 290000  | 63200  | 314300  | 38600  | 189900 | 53400  | 294700  | 42000 | 232100 | 5300  | 30700  | 0     | 0     | 1870400            |
| 2015 | 0     | 0      | 0     | 0      | 0     | 0     | 0     | 200    | 0     | 0       | 0      | 0       | 0      | 0       | 0      | 0      | 0      | 0       | 0     | 0      | 0     | 0      | 0     | 0     | 200                |

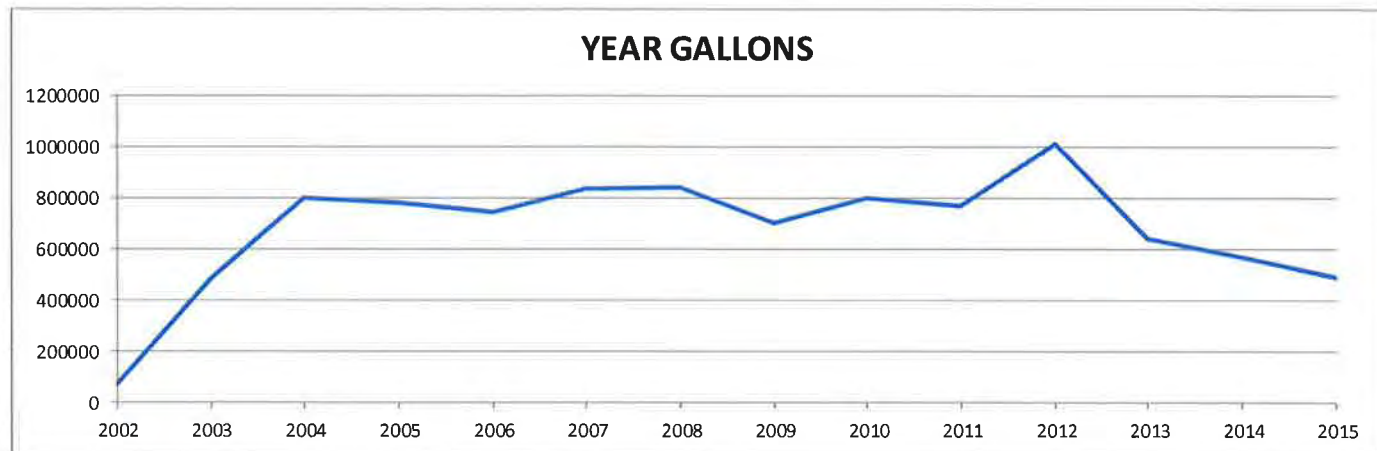


Irrigation upgrade 2005 - Irrigation upgrade 2011/2012, Irrigation failure 2015. Replacement scheduled 2016



Young  
 Account # 357878 Meter # 9937005 Size 2" Service Address 31406

| YEAR | JAN | FEB | MAR | APR | MAY    | JUNE   | JULY   | AUG    | SEPT   | OCT    | NOV    | DEC   | TOTAL YEAR GALLONS |
|------|-----|-----|-----|-----|--------|--------|--------|--------|--------|--------|--------|-------|--------------------|
| 2002 |     | 0   | 0   | 0   | 0      | 0      | 64700  | 100    | 10000  | 0      | 100    | 0     | 74900              |
| 2003 |     | 0   | 0   | 0   | 0      | 47200  | 86800  | 86900  | 142200 | 107100 | 15900  | 0     | 486100             |
| 2004 |     | 0   | 0   | 0   | 500    | 27200  | 133700 | 140300 | 143200 | 138800 | 144200 | 70500 | 798400             |
| 2005 |     | 0   | 0   | 0   | 20000  | 62700  | 81300  | 132500 | 201100 | 199500 | 82300  | 2000  | 781400             |
| 2006 |     | 0   | 0   | 0   | 116900 | 73400  | 114000 | 120400 | 157300 | 110400 | 42400  | 12200 | 747000             |
| 2007 |     | 0   | 0   | 0   | 27800  | 110900 | 69500  | 232500 | 126800 | 164000 | 100000 | 3100  | 834600             |
| 2008 |     | 0   | 0   | 100 | 43400  | 74400  | 209900 | 224100 | 90200  | 128000 | 72700  | 300   | 843100             |
| 2009 |     | 0   | 0   | 0   | 23600  | 106000 | 89900  | 129200 | 143300 | 133400 | 76000  | 800   | 702200             |
| 2010 |     | 0   | 0   | 0   | 9700   | 59200  | 99600  | 199600 | 97900  | 164000 | 132200 | 36300 | 798500             |
| 2011 |     | 0   | 0   | 0   | 35300  | 96100  | 122000 | 196200 | 178600 | 71300  | 55500  | 12700 | 767700             |
| 2012 |     | 0   | 0   | 0   | 43900  | 97900  | 180600 | 180900 | 191800 | 160000 | 120300 | 35500 | 1010900            |
| 2013 |     | 0   | 0   | 0   | 13700  | 72400  | 194300 | 156300 | 57900  | 97100  | 32200  | 17700 | 641600             |
| 2014 |     | 0   | 0   | 0   | 16900  | 87900  | 94000  | 109200 | 65400  | 102400 | 62900  | 32000 | 570700             |
| 2015 |     | 0   | 0   | 0   | 1500   | 61200  | 57600  | 95800  | 65100  | 105500 | 91300  | 9700  | 487700             |



Irrigation upgrade and tree planting 2012.

| Account # | Meter #  | Size | Service Address |
|-----------|----------|------|-----------------|
| 359582    | 99291642 | 3"   | 31019           |

| Year | Gallons    |
|------|------------|
| 2002 | ~500,000   |
| 2003 | ~2,500,000 |
| 2004 | ~7,500,000 |
| 2005 | ~7,800,000 |
| 2006 | ~7,000,000 |
| 2007 | ~7,500,000 |
| 2008 | ~7,800,000 |
| 2009 | ~5,000,000 |
| 2010 | ~1,000,000 |
| 2011 | ~3,500,000 |
| 2012 | ~5,500,000 |
| 2013 | ~6,000,000 |
| 2014 | ~5,800,000 |
| 2015 | ~5,200,000 |

| Year | Gallons   |
|------|-----------|
| 2002 | 100,000   |
| 2003 | 200,000   |
| 2004 | 250,000   |
| 2005 | 300,000   |
| 2006 | 350,000   |
| 2007 | 350,000   |
| 2008 | 400,000   |
| 2009 | 350,000   |
| 2010 | 450,000   |
| 2011 | 500,000   |
| 2012 | 1,400,000 |
| 2013 | 1,000,000 |
| 2014 | 800,000   |
| 2015 | 600,000   |

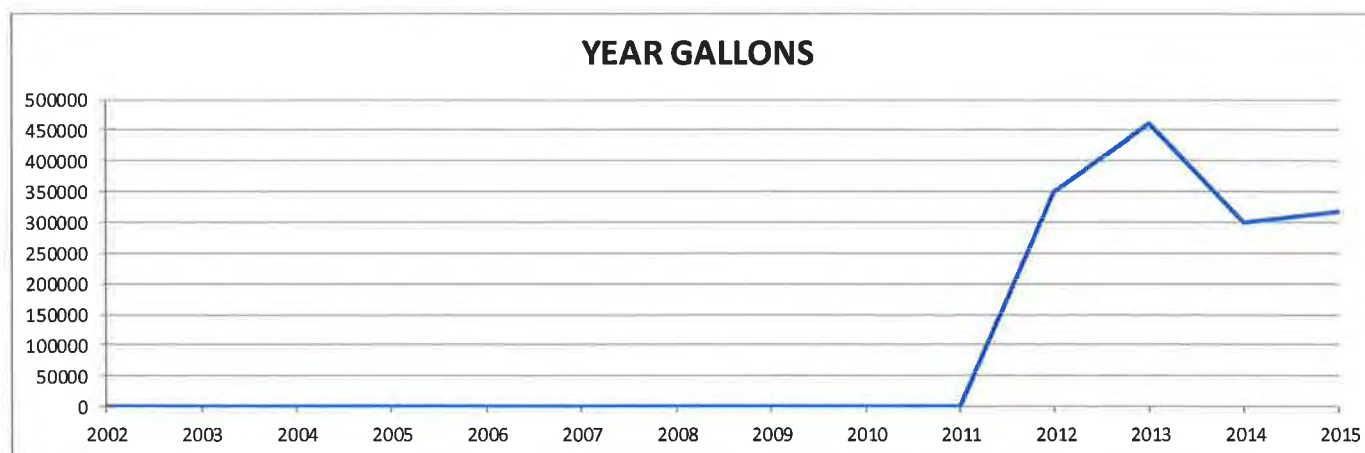
| Year | Gallons |
|------|---------|
| 2002 | 130,000 |
| 2003 | 125,000 |
| 2004 | 135,000 |
| 2005 | 135,000 |
| 2006 | 110,000 |
| 2007 | 145,000 |
| 2008 | 115,000 |
| 2009 | 105,000 |
| 2010 | 100,000 |
| 2011 | 125,000 |
| 2012 | 155,000 |
| 2013 | 115,000 |
| 2014 | 135,000 |
| 2015 | 190,000 |

YEAR

1 1/2"

558413 9958991

| JAN | FEB | MAR | APR | MAY  | JUNE  | JULY   | AUG   | SEPT  | OCT   | NOV    | DEC   | TOTAL YEAR GALLONS |        |
|-----|-----|-----|-----|------|-------|--------|-------|-------|-------|--------|-------|--------------------|--------|
|     |     |     |     |      |       |        |       |       |       |        |       | 0                  |        |
|     |     |     |     |      |       |        |       |       |       |        |       | 0                  |        |
|     |     |     |     |      |       |        |       |       |       |        |       | 0                  |        |
|     |     |     |     |      |       |        |       |       |       |        |       | 0                  |        |
|     |     |     |     |      |       |        |       |       |       |        |       | 0                  |        |
|     |     |     |     |      |       |        |       |       |       |        |       | 0                  |        |
|     |     |     |     |      |       |        |       |       |       |        |       | 0                  |        |
|     |     |     |     |      |       |        |       |       |       |        |       | 0                  |        |
|     |     |     |     |      |       |        |       |       |       |        |       | 0                  |        |
|     |     |     |     |      |       |        |       |       |       |        |       | 0                  |        |
|     |     |     |     |      |       | 0      | 17600 | 52200 | 97100 | 175800 | 7800  | 0                  | 350500 |
|     | 0   | 0   | 0   | 7400 | 78700 | 132400 | 99300 | 37700 | 71600 | 19100  | 14600 | 0                  | 460800 |
|     | 0   | 0   | 0   | 9400 | 44900 | 53200  | 51000 | 41800 | 57400 | 34200  | 8000  | 0                  | 299900 |
|     | 0   | 0   | 0   | 3600 | 57300 | 41700  | 51200 | 41600 | 52700 | 69000  | 0     | 0                  | 317100 |

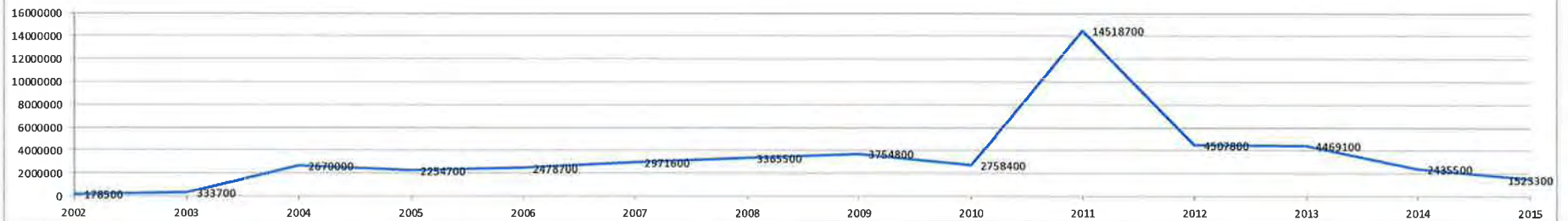


New Park - 2011

Account # 360989  
 Meter # 99355281/2  
 Size 4" & 4"  
 Service Address 31810

| JAN A  | JAN B | FEB A | FEB B | MAR A | MAR B | APR A   | APR B   | MAY A  | MAY B   | JUNE A | JUNE B | JULY A | JULY B | AUG A  | AUG B  | SEPT A | SEPT B  | OCT A  | OCT B  | NOV A  | NOV B  | DEC A  | DEC B | TOTAL YEAR GALLONS |          |
|--------|-------|-------|-------|-------|-------|---------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|-------|--------------------|----------|
| 0      | 0     | 0     | 2300  | 300   | 7000  | 2000    | 43500   | 0      | 500     | 1000   | 20500  | 2000   | 38500  | 1900   | 58000  | 0      | 500     | 0      | 500    | 0      | 0      | 0      | 0     | 178500             |          |
| 0      | 500   | 0     | 500   | 0     | 0     | 0       | 500     | 0      | 1500    | 0      | 1000   | 1300   | 28500  | 7900   | 165000 | 1900   | 13500   | 3400   | 71000  | 1700   | 35500  | 0      | 0     | 333700             |          |
| 0      | 0     | 0     | 500   | 0     | 0     | 800     | 114700  | 0      | 12800   | 16500  | 662500 | 21300  | 402000 | 19000  | 371500 | 15700  | 345000  | 7000   | 319500 | 7700   | 326000 | 0      | 27500 | 2670000            |          |
| 0      | 0     | 0     | 0     | 0     | 0     | 0       | 500     | 1800   | 121300  | 132000 | 291800 | 218500 | 198400 | 135000 | 144700 | 211400 | 93800   | 210000 | 58300  | 193400 | 0      | 217200 | 26600 | 2254700            |          |
| 194800 | 21400 | 49800 | 13400 | 40300 | 3800  | 291600  | 15000   | 433800 | 0       | 387400 | 64700  | 122600 | 65200  | 186900 | 32000  | 183500 | 35600   | 171500 | 20300  | 72000  | 700    | 72000  | 400   | 2478700            |          |
| 56800  | 0     | 58800 | 0     | 52100 | 0     | 89400   | 313600  | 199600 | 53400   | 233000 | 571600 | 202400 | 71700  | 250900 | 56800  | 223800 | 82000   | 258700 | 55900  | 53500  | 300    | 87000  | 300   | 2971600            |          |
| 80000  | 0     | 94900 | 0     | 71500 | 15000 | 71600   | 78100   | 92900  | 188200  | 121700 | 564900 | 42600  | 806800 | 0      | 406500 | 0      | 488000  | 0      | 170000 | 0      | 72800  | 0      | 0     | 3965500            |          |
| 0      | 200   | 0     | 200   | 61700 | 0     | 26700   | 23000   | 104400 | 423400  | 164300 | 516000 | 131300 | 457100 | 0      | 57900  | 359600 | 1069300 | 123700 | 235400 | 0      | 600    | 0      | 0     | 3754800            |          |
| 0      | 0     | 0     | 0     | 0     | 0     | 18700   | 198000  | 380700 | 155600  | 118400 | 196000 | 157500 | 286000 | 34200  | 800    | 287800 | 841900  | 72400  | 5400   | 5000   | 0      | 0      | 0     | 2758400            |          |
| 0      | 0     | 0     | 0     | 0     | 0     | 6126000 | 6062000 | 26300  | 99600   | 76200  | 268800 | 120300 | 412100 | 150500 | 649700 | 72300  | 180100  | 69300  | 168100 | 13100  | 24300  | 0      | 0     | 0                  | 14518700 |
| 0      | 0     | 0     | 0     | 0     | 0     | 38800   | 41400   | 60100  | 94600   | 115300 | 382100 | 175400 | 749600 | 109200 | 953400 | 96200  | 732500  | 75600  | 557400 | 48100  | 278100 | 0      | 0     | 0                  | 4507800  |
| 0      | 0     | 0     | 0     | 0     | 0     | 69200   | 74700   | 223400 | 1504900 | 74400  | 572200 | 106700 | 688700 | 58600  | 289600 | 92400  | 564500  | 45200  | 83300  | 15200  | 6100   | 0      | 0     | 0                  | 4469100  |
| 0      | 0     | 0     | 0     | 0     | 0     | 66500   | 3700    | 74300  | 355200  | 108200 | 424900 | 105300 | 419500 | 53400  | 504100 | 46600  | 81400   | 6400   | 70700  | 48300  | 39200  | 27800  | 0     | 0                  | 2435500  |
| 33200  | 0     | 24100 | 0     | 21300 | 0     | 21500   | 0       | 36600  | 25300   | 61300  | 166900 | 85500  | 258700 | 56100  | 161700 | 66600  | 211100  | 66600  | 180900 | 23700  | 0      | 22200  | 0     | 0                  | 1523300  |

YEAR GALLONS



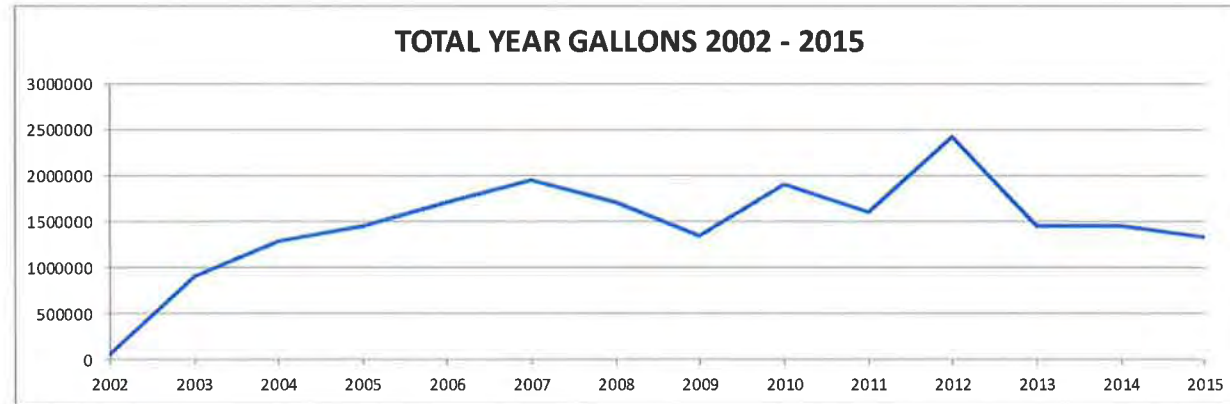
Irrigation line failure 2010/2011

Gregory Lopez  
1230 San Felipe Ave  
YEAR

Account # Meter # Size Service Address  
360284 9932480 2" 31194

System DU report =  
43.67%

|      | JAN | FEB | MAR   | APR    | MAY    | JUNE   | JULY   | AUG    | SEPT   | OCT    | NOV    | DEC | TOTAL YEAR GALLONS |
|------|-----|-----|-------|--------|--------|--------|--------|--------|--------|--------|--------|-----|--------------------|
| 2002 | 0   | 0   | 0     | 0      | 0      | 0      | 0      | 60300  | 0      | 0      | 0      | 0   | 60300              |
| 2003 | 0   | 0   | 0     | 0      | 231200 | 234700 | 2900   | 253600 | 51700  | 92600  | 37300  | 0   | 904000             |
| 2004 | 0   | 0   | 0     | 4600   | 244200 | 212400 | 271100 | 147800 | 235300 | 141500 | 24100  | 0   | 1281000            |
| 2005 | 0   | 0   | 0     | 44700  | 82400  | 396100 | 320900 | 304300 | 258400 | 43500  | 2100   | 0   | 1452400            |
| 2006 | 0   | 0   | 11400 | 0      | 0      | 815700 | 243200 | 259600 | 244100 | 141000 | 0      | 0   | 1715000            |
| 2007 | 0   | 0   | 0     | 80100  | 292000 | 135900 | 559800 | 270800 | 422400 | 0      | 190800 | 0   | 1951800            |
| 2008 | 0   | 0   | 0     | 200200 | 188600 | 269700 | 352300 | 262800 | 273100 | 165700 | 0      | 0   | 1712400            |
| 2009 | 0   | 0   | 5200  | 50700  | 186600 | 174600 | 227700 | 60000  | 518400 | 94900  | 23200  | 0   | 1341300            |
| 2010 | 0   | 0   | 0     | 17100  | 129900 | 319800 | 450400 | 195600 | 394000 | 312400 | 83800  | 0   | 1903000            |
| 2011 | 0   | 0   | 0     | 92700  | 197600 | 266200 | 344100 | 427400 | 133600 | 134800 | 0      | 0   | 1596400            |
| 2012 | 0   | 0   | 0     | 62300  | 240600 | 362400 | 490100 | 464800 | 388300 | 299900 | 116700 | 0   | 2425100            |
| 2013 | 0   | 0   | 0     | 32300  | 183000 | 267800 | 287200 | 189500 | 359000 | 87600  | 51800  | 0   | 1458200            |
| 2014 | 0   | 0   | 0     | 45500  | 271000 | 255400 | 273800 | 168300 | 241600 | 138200 | 60900  | 0   | 1454700            |
| 2015 | 0   | 0   | 0     | 26200  | 130700 | 180900 | 290700 | 164000 | 284000 | 261200 | 0      | 0   | 1337700            |



|                                                      |                                             |                      |              |                          |                                             |                                      |              |            |    |
|------------------------------------------------------|---------------------------------------------|----------------------|--------------|--------------------------|---------------------------------------------|--------------------------------------|--------------|------------|----|
| <b>Project Name</b>                                  |                                             | <b>Gregory Lopez</b> |              | <b>Date</b>              | <b>June 25, 2015</b>                        |                                      |              |            |    |
| <b>Address</b>                                       |                                             |                      |              | <b>Auditor</b>           | <b>Sam</b>                                  |                                      |              |            |    |
| <b>City, State</b>                                   |                                             |                      |              | <b>Area/Zone/Station</b> | <b>1.00</b>                                 |                                      |              |            |    |
|                                                      |                                             |                      |              |                          |                                             |                                      |              |            |    |
| <b>See instructions below on clearing input area</b> |                                             |                      |              |                          |                                             |                                      |              |            |    |
| <b>Test Area/Station</b>                             |                                             |                      |              | <b>1</b>                 |                                             |                                      |              |            |    |
| <b>Catch Device Area (A<sub>CD</sub>)</b>            |                                             |                      |              |                          | <b>in<sup>2</sup></b>                       | <b>Test Run Time (t<sub>r</sub>)</b> |              | <b>min</b> |    |
| <b>Catch Device Volumes</b>                          |                                             |                      |              |                          |                                             |                                      |              |            |    |
| 1                                                    | 30                                          | 17                   | 50           | 33                       |                                             | 49                                   | 65           |            | 81 |
| 2                                                    | 30                                          | 18                   | 40           | 34                       |                                             | 50                                   | 66           |            | 82 |
| 3                                                    | 25                                          | 19                   | 40           | 35                       |                                             | 51                                   | 67           |            | 83 |
| 4                                                    | 25                                          | 20                   | 45           | 36                       |                                             | 52                                   | 68           |            | 84 |
| 5                                                    | 25                                          | 21                   | 30           | 37                       |                                             | 53                                   | 69           |            | 85 |
| 6                                                    | 25                                          | 22                   | 40           | 38                       |                                             | 54                                   | 70           |            | 86 |
| 7                                                    | 25                                          | 23                   | 45           | 39                       |                                             | 55                                   | 71           |            | 87 |
| 8                                                    | 25                                          | 24                   | 100          | 40                       |                                             | 56                                   | 72           |            | 88 |
| 9                                                    | 35                                          | 25                   |              | 41                       |                                             | 57                                   | 73           |            | 89 |
| 10                                                   | 20                                          | 26                   |              | 42                       |                                             | 58                                   | 74           |            | 90 |
| 11                                                   | 20                                          | 27                   |              | 43                       |                                             | 59                                   | 75           |            | 91 |
| 12                                                   | 10                                          | 28                   |              | 44                       |                                             | 60                                   | 76           |            | 92 |
| 13                                                   | 45                                          | 29                   |              | 45                       |                                             | 61                                   | 77           |            | 93 |
| 14                                                   | 40                                          | 30                   |              | 46                       |                                             | 62                                   | 78           |            | 94 |
| 15                                                   | 40                                          | 31                   |              | 47                       |                                             | 63                                   | 79           |            | 95 |
| 16                                                   | 55                                          | 32                   |              | 48                       |                                             | 64                                   | 80           |            | 96 |
| <b>Number Catch Devices</b>                          |                                             |                      | <b>24</b>    |                          | <b>1/4 Number Catch Devices</b>             |                                      | <b>6</b>     |            |    |
| <b>Total Catch Volume</b>                            |                                             |                      | <b>865</b>   |                          | <b>Total Low Quarter</b>                    |                                      | <b>125</b>   |            |    |
| <b>Average Volume (V<sub>avg</sub>)</b>              |                                             |                      | <b>36.04</b> |                          | <b>Average Low Quarter (V<sub>lq</sub>)</b> |                                      | <b>20.83</b> |            |    |
|                                                      |                                             |                      |              |                          |                                             |                                      |              |            |    |
| <b>Calculate Distribution Uniformity</b>             |                                             |                      |              |                          |                                             |                                      |              |            |    |
| <b>DU<sub>lq</sub> =</b>                             | <b>Average Low Quarter (V<sub>lq</sub>)</b> |                      | <b>=</b>     | <b>0.58</b>              |                                             |                                      |              |            |    |
|                                                      | <b>Average Volume (V<sub>avg</sub>)</b>     |                      |              |                          |                                             |                                      |              |            |    |

|                                                      |    |    |                                             |    |  |                                             |    |                                      |             |            |  |
|------------------------------------------------------|----|----|---------------------------------------------|----|--|---------------------------------------------|----|--------------------------------------|-------------|------------|--|
| <b>Project Name</b>                                  |    |    | <b>Gregory Lopez</b>                        |    |  | <b>Date</b>                                 |    | <b>June 25, 2015</b>                 |             |            |  |
| <b>Address</b>                                       |    |    |                                             |    |  | <b>Auditor</b>                              |    | <b>Sam</b>                           |             |            |  |
| <b>City, State</b>                                   |    |    |                                             |    |  | <b>Area/Zone/Station</b>                    |    | <b>3.00</b>                          |             |            |  |
| <b>See instructions below on clearing input area</b> |    |    |                                             |    |  |                                             |    |                                      |             |            |  |
| <b>Test Area/Station</b>                             |    |    |                                             |    |  | <b>3</b>                                    |    |                                      |             |            |  |
| <b>Catch Device Area (A<sub>cd</sub>)</b>            |    |    |                                             |    |  | <b>in<sup>2</sup></b>                       |    | <b>Test Run Time (t<sub>r</sub>)</b> |             | <b>min</b> |  |
| <b>Catch Device Volumes</b>                          |    |    |                                             |    |  |                                             |    |                                      |             |            |  |
| 1                                                    | 10 | 17 | 20                                          | 33 |  | 49                                          | 65 |                                      | 81          |            |  |
| 2                                                    | 10 | 18 | 20                                          | 34 |  | 50                                          | 66 |                                      | 82          |            |  |
| 3                                                    | 10 | 19 | 15                                          | 35 |  | 51                                          | 67 |                                      | 83          |            |  |
| 4                                                    | 15 | 20 | 20                                          | 36 |  | 52                                          | 68 |                                      | 84          |            |  |
| 5                                                    | 15 | 21 | 25                                          | 37 |  | 53                                          | 69 |                                      | 85          |            |  |
| 6                                                    | 5  | 22 | 15                                          | 38 |  | 54                                          | 70 |                                      | 86          |            |  |
| 7                                                    | 15 | 23 | 15                                          | 39 |  | 55                                          | 71 |                                      | 87          |            |  |
| 8                                                    | 15 | 24 | 10                                          | 40 |  | 56                                          | 72 |                                      | 88          |            |  |
| 9                                                    | 20 | 25 |                                             | 41 |  | 57                                          | 73 |                                      | 89          |            |  |
| 10                                                   | 15 | 26 |                                             | 42 |  | 58                                          | 74 |                                      | 90          |            |  |
| 11                                                   | 20 | 27 |                                             | 43 |  | 59                                          | 75 |                                      | 91          |            |  |
| 12                                                   | 25 | 28 |                                             | 44 |  | 60                                          | 76 |                                      | 92          |            |  |
| 13                                                   | 25 | 29 |                                             | 45 |  | 61                                          | 77 |                                      | 93          |            |  |
| 14                                                   | 20 | 30 |                                             | 46 |  | 62                                          | 78 |                                      | 94          |            |  |
| 15                                                   | 15 | 31 |                                             | 47 |  | 63                                          | 79 |                                      | 95          |            |  |
| 16                                                   | 10 | 32 |                                             | 48 |  | 64                                          | 80 |                                      | 96          |            |  |
| <b>Number Catch Devices</b>                          |    |    | <b>24</b>                                   |    |  | <b>1/4 Number Catch Devices</b>             |    |                                      | <b>6</b>    |            |  |
| <b>Total Catch Volume</b>                            |    |    | <b>385</b>                                  |    |  | <b>Total Low Quarter</b>                    |    |                                      | <b>55</b>   |            |  |
| <b>Average Volume (V<sub>avg</sub>)</b>              |    |    | <b>16.04</b>                                |    |  | <b>Average Low Quarter (V<sub>lq</sub>)</b> |    |                                      | <b>9.17</b> |            |  |
| <b>Calculate Distribution Uniformity</b>             |    |    |                                             |    |  |                                             |    |                                      |             |            |  |
| <b>DU<sub>lq</sub> =</b>                             |    |    | <b>Average Low Quarter (V<sub>lq</sub>)</b> |    |  | <b>=</b>                                    |    |                                      | <b>0.57</b> |            |  |
|                                                      |    |    | <b>Average Volume (V<sub>avg</sub>)</b>     |    |  |                                             |    |                                      |             |            |  |



|                                                      |    |                                             |    |                                             |  |                                      |    |            |  |
|------------------------------------------------------|----|---------------------------------------------|----|---------------------------------------------|--|--------------------------------------|----|------------|--|
| <b>Project Name</b>                                  |    | <b>Gregory Lopez</b>                        |    | <b>Date</b>                                 |  | <b>June 25, 2015</b>                 |    |            |  |
| <b>Address</b>                                       |    |                                             |    | <b>Auditor</b>                              |  | <b>Sam</b>                           |    |            |  |
| <b>City, State</b>                                   |    |                                             |    | <b>Area/Zone/Station</b>                    |  | <b>5.00</b>                          |    |            |  |
|                                                      |    |                                             |    |                                             |  |                                      |    |            |  |
| <b>See instructions below on clearing input area</b> |    |                                             |    |                                             |  |                                      |    |            |  |
| <b>Test Area/Station</b>                             |    |                                             |    | <b>5</b>                                    |  |                                      |    |            |  |
| <b>Catch Device Area (A<sub>CD</sub>)</b>            |    |                                             |    | <b>in<sup>2</sup></b>                       |  | <b>Test Run Time (t<sub>r</sub>)</b> |    | <b>min</b> |  |
| <b>Catch Device Volumes</b>                          |    |                                             |    |                                             |  |                                      |    |            |  |
| 1                                                    | 60 | 17                                          | 5  | 33                                          |  | 49                                   | 65 | 81         |  |
| 2                                                    | 70 | 18                                          | 10 | 34                                          |  | 50                                   | 66 | 82         |  |
| 3                                                    | 30 | 19                                          | 30 | 35                                          |  | 51                                   | 67 | 83         |  |
| 4                                                    | 40 | 20                                          | 30 | 36                                          |  | 52                                   | 68 | 84         |  |
| 5                                                    | 30 | 21                                          |    | 37                                          |  | 53                                   | 69 | 85         |  |
| 6                                                    | 10 | 22                                          |    | 38                                          |  | 54                                   | 70 | 86         |  |
| 7                                                    | 10 | 23                                          |    | 39                                          |  | 55                                   | 71 | 87         |  |
| 8                                                    | 30 | 24                                          |    | 40                                          |  | 56                                   | 72 | 88         |  |
| 9                                                    | 20 | 25                                          |    | 41                                          |  | 57                                   | 73 | 89         |  |
| 10                                                   | 60 | 26                                          |    | 42                                          |  | 58                                   | 74 | 90         |  |
| 11                                                   | 50 | 27                                          |    | 43                                          |  | 59                                   | 75 | 91         |  |
| 12                                                   | 50 | 28                                          |    | 44                                          |  | 60                                   | 76 | 92         |  |
| 13                                                   | 30 | 29                                          |    | 45                                          |  | 61                                   | 77 | 93         |  |
| 14                                                   | 40 | 30                                          |    | 46                                          |  | 62                                   | 78 | 94         |  |
| 15                                                   | 20 | 31                                          |    | 47                                          |  | 63                                   | 79 | 95         |  |
| 16                                                   | 10 | 32                                          |    | 48                                          |  | 64                                   | 80 | 96         |  |
| <b>Number Catch Devices</b>                          |    | <b>20</b>                                   |    | <b>1/4 Number Catch Devices</b>             |  | <b>5</b>                             |    |            |  |
| <b>Total Catch Volume</b>                            |    | <b>635</b>                                  |    | <b>Total Low Quarter</b>                    |  | <b>45</b>                            |    |            |  |
| <b>Average Volume (V<sub>avg</sub>)</b>              |    | <b>31.75</b>                                |    | <b>Average Low Quarter (V<sub>lq</sub>)</b> |  | <b>9.00</b>                          |    |            |  |
|                                                      |    |                                             |    |                                             |  |                                      |    |            |  |
| <b>Calculate Distribution Uniformity</b>             |    |                                             |    |                                             |  |                                      |    |            |  |
| <b>DU<sub>lq</sub> =</b>                             |    | <b>Average Low Quarter (V<sub>lq</sub>)</b> |    | <b>=</b>                                    |  | <b>0.28</b>                          |    |            |  |
|                                                      |    | <b>Average Volume (V<sub>avg</sub>)</b>     |    |                                             |  |                                      |    |            |  |



|                                                      |    |                                             |     |                                             |    |                                      |    |            |  |
|------------------------------------------------------|----|---------------------------------------------|-----|---------------------------------------------|----|--------------------------------------|----|------------|--|
| <b>Project Name</b>                                  |    | <b>Gregory Lopez</b>                        |     | <b>Date</b>                                 |    | <b>June 25, 2015</b>                 |    |            |  |
| <b>Address</b>                                       |    |                                             |     | <b>Auditor</b>                              |    | <b>Sam</b>                           |    |            |  |
| <b>City, State</b>                                   |    |                                             |     | <b>Area/Zone/Station</b>                    |    | <b>7.00</b>                          |    |            |  |
|                                                      |    |                                             |     |                                             |    |                                      |    |            |  |
| <b>See instructions below on clearing input area</b> |    |                                             |     |                                             |    |                                      |    |            |  |
| <b>Test Area/Station</b>                             |    |                                             |     | <b>7</b>                                    |    |                                      |    |            |  |
| <b>Catch Device Area (A<sub>cd</sub>)</b>            |    |                                             |     | <b>in<sup>2</sup></b>                       |    | <b>Test Run Time (t<sub>R</sub>)</b> |    | <b>min</b> |  |
| <b>Catch Device Volumes</b>                          |    |                                             |     |                                             |    |                                      |    |            |  |
| 1                                                    | 35 | 17                                          | 35  | 33                                          | 0  | 49                                   | 65 | 81         |  |
| 2                                                    | 50 | 18                                          | 30  | 34                                          | 3  | 50                                   | 66 | 82         |  |
| 3                                                    | 35 | 19                                          | 25  | 35                                          | 15 | 51                                   | 67 | 83         |  |
| 4                                                    | 10 | 20                                          | 35  | 36                                          | 30 | 52                                   | 68 | 84         |  |
| 5                                                    | 50 | 21                                          | 80  | 37                                          |    | 53                                   | 69 | 85         |  |
| 6                                                    | 30 | 22                                          | 100 | 38                                          |    | 54                                   | 70 | 86         |  |
| 7                                                    | 5  | 23                                          | 105 | 39                                          |    | 55                                   | 71 | 87         |  |
| 8                                                    | 2  | 24                                          | 100 | 40                                          |    | 56                                   | 72 | 88         |  |
| 9                                                    | 25 | 25                                          | 75  | 41                                          |    | 57                                   | 73 | 89         |  |
| 10                                                   | 50 | 26                                          | 50  | 42                                          |    | 58                                   | 74 | 90         |  |
| 11                                                   | 30 | 27                                          | 35  | 43                                          |    | 59                                   | 75 | 91         |  |
| 12                                                   | 40 | 28                                          | 50  | 44                                          |    | 60                                   | 76 | 92         |  |
| 13                                                   | 30 | 29                                          | 10  | 45                                          |    | 61                                   | 77 | 93         |  |
| 14                                                   | 25 | 30                                          | 35  | 46                                          |    | 62                                   | 78 | 94         |  |
| 15                                                   | 25 | 31                                          | 2   | 47                                          |    | 63                                   | 79 | 95         |  |
| 16                                                   | 20 | 32                                          | 0   | 48                                          |    | 64                                   | 80 | 96         |  |
| <b>Number Catch Devices</b>                          |    | <b>36</b>                                   |     | <b>1/4 Number Catch Devices</b>             |    | <b>9</b>                             |    |            |  |
| <b>Total Catch Volume</b>                            |    | <b>1277</b>                                 |     | <b>Total Low Quarter</b>                    |    | <b>47</b>                            |    |            |  |
| <b>Average Volume (V<sub>avg</sub>)</b>              |    | <b>35.47</b>                                |     | <b>Average Low Quarter (V<sub>lq</sub>)</b> |    | <b>5.22</b>                          |    |            |  |
|                                                      |    |                                             |     |                                             |    |                                      |    |            |  |
| <b>Calculate Distribution Uniformity</b>             |    |                                             |     |                                             |    |                                      |    |            |  |
| <b>DU<sub>LQ</sub> =</b>                             |    | <b>Average Low Quarter (V<sub>lq</sub>)</b> |     | <b>=</b>                                    |    | <b>0.15</b>                          |    |            |  |
|                                                      |    | <b>Average Volume (V<sub>avg</sub>)</b>     |     |                                             |    |                                      |    |            |  |

|                                               |                                         |                                             |              |                          |                                             |                                      |             |    |  |
|-----------------------------------------------|-----------------------------------------|---------------------------------------------|--------------|--------------------------|---------------------------------------------|--------------------------------------|-------------|----|--|
| <b>Project Name</b>                           |                                         | <b>Gregory Lopez</b>                        |              | <b>Date</b>              |                                             | <b>June 25, 2015</b>                 |             |    |  |
| <b>Address</b>                                |                                         |                                             |              | <b>Auditor</b>           |                                             | <b>Sam</b>                           |             |    |  |
| <b>City, State</b>                            |                                         |                                             |              | <b>Area/Zone/Station</b> |                                             | <b>9.00</b>                          |             |    |  |
| See instructions below on clearing input area |                                         |                                             |              |                          |                                             |                                      |             |    |  |
| <b>Test Area/Station</b>                      |                                         |                                             |              | <b>9</b>                 |                                             |                                      |             |    |  |
| <b>Catch Device Area (A<sub>CD</sub>)</b>     |                                         |                                             |              |                          | <b>in<sup>2</sup></b>                       | <b>Test Run Time (t<sub>R</sub>)</b> | <b>min</b>  |    |  |
| <b>Catch Device Volumes</b>                   |                                         |                                             |              |                          |                                             |                                      |             |    |  |
| 1                                             | 25                                      | 17                                          | 5            | 33                       |                                             | 49                                   | 65          | 81 |  |
| 2                                             | 20                                      | 18                                          | 1            | 34                       |                                             | 50                                   | 66          | 82 |  |
| 3                                             | 25                                      | 19                                          | 2            | 35                       |                                             | 51                                   | 67          | 83 |  |
| 4                                             | 15                                      | 20                                          | 8            | 36                       |                                             | 52                                   | 68          | 84 |  |
| 5                                             | 15                                      | 21                                          | 20           | 37                       |                                             | 53                                   | 69          | 85 |  |
| 6                                             | 4                                       | 22                                          | 30           | 38                       |                                             | 54                                   | 70          | 86 |  |
| 7                                             | 15                                      | 23                                          |              | 39                       |                                             | 55                                   | 71          | 87 |  |
| 8                                             | 10                                      | 24                                          |              | 40                       |                                             | 56                                   | 72          | 88 |  |
| 9                                             | 15                                      | 25                                          |              | 41                       |                                             | 57                                   | 73          | 89 |  |
| 10                                            | 20                                      | 26                                          |              | 42                       |                                             | 58                                   | 74          | 90 |  |
| 11                                            | 30                                      | 27                                          |              | 43                       |                                             | 59                                   | 75          | 91 |  |
| 12                                            | 39                                      | 28                                          |              | 44                       |                                             | 60                                   | 76          | 92 |  |
| 13                                            | 35                                      | 29                                          |              | 45                       |                                             | 61                                   | 77          | 93 |  |
| 14                                            | 20                                      | 30                                          |              | 46                       |                                             | 62                                   | 78          | 94 |  |
| 15                                            | 10                                      | 31                                          |              | 47                       |                                             | 63                                   | 79          | 95 |  |
| 16                                            | 10                                      | 32                                          |              | 48                       |                                             | 64                                   | 80          | 96 |  |
| <b>Number Catch Devices</b>                   |                                         |                                             | <b>22</b>    |                          | <b>1/4 Number Catch Devices</b>             |                                      | <b>6</b>    |    |  |
| <b>Total Catch Volume</b>                     |                                         |                                             | <b>374</b>   |                          | <b>Total Low Quarter</b>                    |                                      | <b>30</b>   |    |  |
| <b>Average Volume (V<sub>avg</sub>)</b>       |                                         |                                             | <b>17.00</b> |                          | <b>Average Low Quarter (V<sub>lq</sub>)</b> |                                      | <b>5.00</b> |    |  |
| Calculate Distribution Uniformity             |                                         |                                             |              |                          |                                             |                                      |             |    |  |
| <b>D<sub>U<sub>lq</sub></sub> =</b>           |                                         | <b>Average Low Quarter (V<sub>lq</sub>)</b> |              | <b>=</b>                 | <b>0.29</b>                                 |                                      |             |    |  |
|                                               | <b>Average Volume (V<sub>avg</sub>)</b> |                                             |              |                          |                                             |                                      |             |    |  |

|                                               |    |                                        |    |    |                                        |                 |                                 |  |     |  |
|-----------------------------------------------|----|----------------------------------------|----|----|----------------------------------------|-----------------|---------------------------------|--|-----|--|
| Project Name                                  |    | Gregory Lopez                          |    |    | Date                                   |                 | June 25, 2015                   |  |     |  |
| Address                                       |    |                                        |    |    | Auditor                                |                 | Sam                             |  |     |  |
| City, State                                   |    |                                        |    |    | Area/Zone/Station                      |                 | 11.00                           |  |     |  |
| See instructions below on clearing input area |    |                                        |    |    |                                        |                 |                                 |  |     |  |
| Test Area/Station                             |    |                                        |    |    | 11                                     |                 |                                 |  |     |  |
| Catch Device Area (Ac <sub>d</sub> )          |    |                                        |    |    |                                        | in <sup>2</sup> | Test Run Time (t <sub>R</sub> ) |  | min |  |
| Catch Device Volumes                          |    |                                        |    |    |                                        |                 |                                 |  |     |  |
| 1                                             | 15 | 17                                     | 45 | 33 |                                        | 49              | 65                              |  | 81  |  |
| 2                                             | 25 | 18                                     | 65 | 34 |                                        | 50              | 66                              |  | 82  |  |
| 3                                             | 15 | 19                                     | 60 | 35 |                                        | 51              | 67                              |  | 83  |  |
| 4                                             | 3  | 20                                     | 55 | 36 |                                        | 52              | 68                              |  | 84  |  |
| 5                                             | 25 | 21                                     | 50 | 37 |                                        | 53              | 69                              |  | 85  |  |
| 6                                             | 40 | 22                                     | 75 | 38 |                                        | 54              | 70                              |  | 86  |  |
| 7                                             | 25 | 23                                     |    | 39 |                                        | 55              | 71                              |  | 87  |  |
| 8                                             | 25 | 24                                     |    | 40 |                                        | 56              | 72                              |  | 88  |  |
| 9                                             | 25 | 25                                     |    | 41 |                                        | 57              | 73                              |  | 89  |  |
| 10                                            | 35 | 26                                     |    | 42 |                                        | 58              | 74                              |  | 90  |  |
| 11                                            | 35 | 27                                     |    | 43 |                                        | 59              | 75                              |  | 91  |  |
| 12                                            | 50 | 28                                     |    | 44 |                                        | 60              | 76                              |  | 92  |  |
| 13                                            | 20 | 29                                     |    | 45 |                                        | 61              | 77                              |  | 93  |  |
| 14                                            | 40 | 30                                     |    | 46 |                                        | 62              | 78                              |  | 94  |  |
| 15                                            | 20 | 31                                     |    | 47 |                                        | 63              | 79                              |  | 95  |  |
| 16                                            | 25 | 32                                     |    | 48 |                                        | 64              | 80                              |  | 96  |  |
| Number Catch Devices                          |    | 22                                     |    |    | 1/4 Number Catch Devices               |                 | 6                               |  |     |  |
| Total Catch Volume                            |    | 773                                    |    |    | Total Low Quarter                      |                 | 98                              |  |     |  |
| Average Volume (V <sub>avg</sub> )            |    | 35.14                                  |    |    | Average Low Quarter (V <sub>lq</sub> ) |                 | 16.33                           |  |     |  |
| Calculate Distribution Uniformity             |    |                                        |    |    |                                        |                 |                                 |  |     |  |
| DU <sub>LQ</sub> =                            |    | Average Low Quarter (V <sub>lq</sub> ) |    | =  | 0.46                                   |                 |                                 |  |     |  |
| Average Volume (V <sub>avg</sub> )            |    |                                        |    |    |                                        |                 |                                 |  |     |  |

Distribution Uniformity of this system as audited: **43.7%**

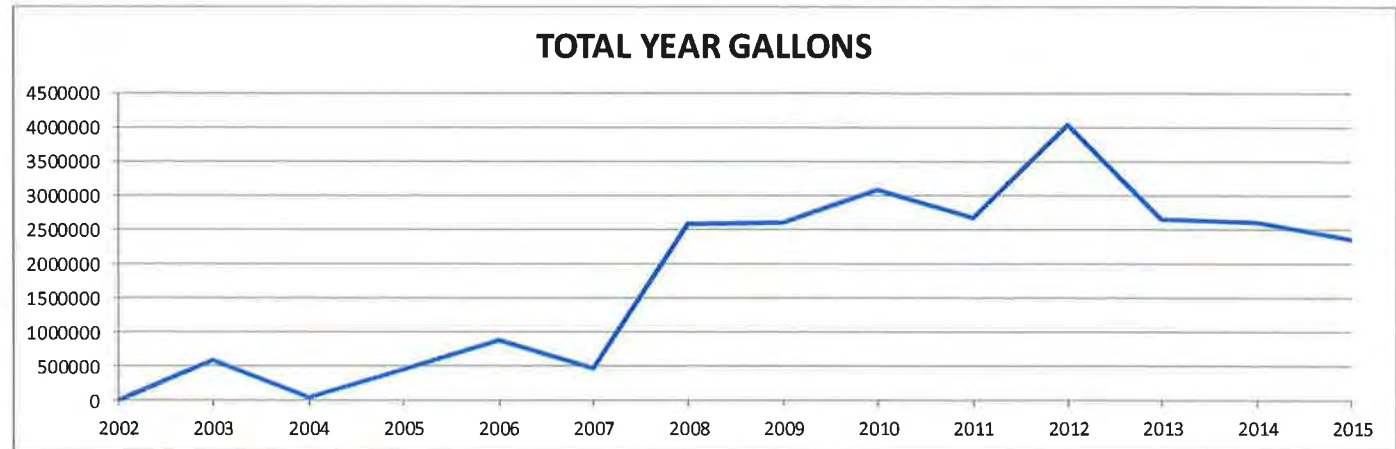
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|      | JAN | FEB  | MAR  | APR    | MAY    | JUNE   | JULY   | AUG    | SEPT    | OCT    | NOV    | DEC    | TOTAL YEAR GALLONS |         |
|------|-----|------|------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------------------|---------|
| 2002 |     | 0    | 0    | 0      | 0      | 0      | 0      | 0      | 0       | 0      | 0      | 0      | 0                  |         |
| 2003 |     | 0    | 0    | 1600   | 0      | 0      | 6400   | 432100 | 60600   | 30200  | 43100  | 14100  | 0                  | 588100  |
| 2004 |     | 0    | 0    | 0      | 300    | 200    | 0      | 0      | 41400   | 4600   | 1800   | 200    | 0                  | 48500   |
| 2005 |     | 0    | 0    | 0      | 0      | 0      | 3800   | 373900 | 78800   | 0      | 100    | 200    | 0                  | 456800  |
| 2006 |     | 0    | 0    | 100    | 33500  | 148400 | 375800 | 175800 | 62500   | 82300  | 0      | 200    | 0                  | 878600  |
| 2007 |     | 0    | 0    | 0      | 15600  | 93500  | 35600  | 110800 | 54600   | 91000  | 58200  | 8000   | 2500               | 469800  |
| 2008 | 100 | 3600 | 6200 | 104100 | 668500 | 544800 | 592000 | 193700 | 112700  | 363600 | 0      | 0      | 0                  | 2589300 |
| 2009 |     | 0    | 0    | 0      | 92400  | 504800 | 345300 | 0      | 1160200 | 274400 | 221600 | 100    | 0                  | 2598800 |
| 2010 |     | 0    | 0    | 0      | 0      | 390700 | 549100 | 623600 | 0       | 987900 | 448300 | 86300  | 0                  | 3085900 |
| 2011 |     | 0    | 0    | 0      | 166000 | 361000 | 469600 | 422700 | 811900  | 258100 | 189000 | 0      | 0                  | 2678300 |
| 2012 |     | 0    | 0    | 0      | 138000 | 469700 | 616200 | 989400 | 532000  | 572000 | 560300 | 167400 | 0                  | 4045000 |
| 2013 |     | 0    | 0    | 0      | 87200  | 500100 | 472200 | 384700 | 351800  | 595300 | 139700 | 126200 | 0                  | 2657200 |
| 2014 |     | 0    | 0    | 0      | 59800  | 403500 | 496000 | 498500 | 287600  | 460300 | 275700 | 122500 | 200                | 2604100 |
| 2015 |     | 0    | 0    | 0      | 6900   | 297800 | 300900 | 438100 | 297100  | 514600 | 496100 | 0      | 0                  | 2351500 |

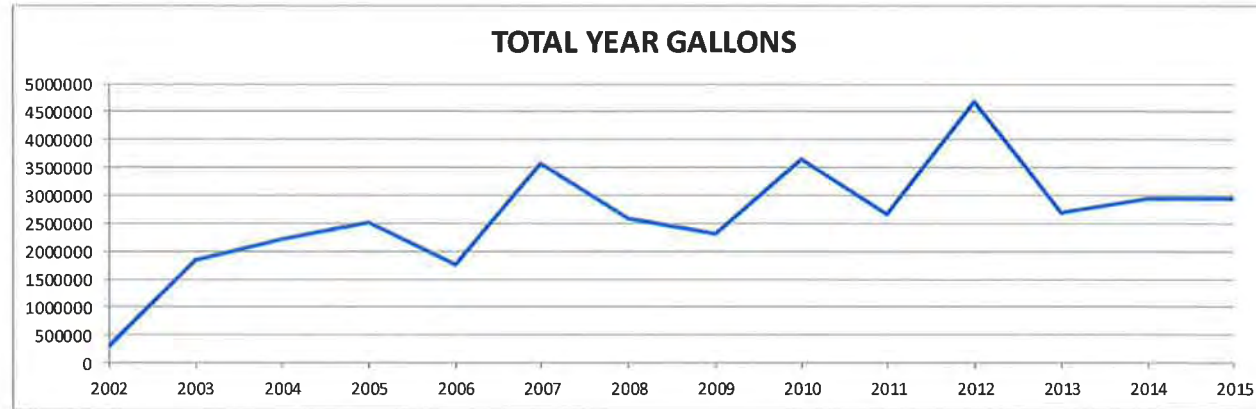
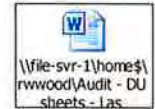


Las Acequias  
1100 Calle Atajo  
YEAR

Account # Meter # Size Service Address  
360532 9933810 2" 31378

System DU report =  
40.50%

|      | JAN     | FEB | MAR | APR    | MAY    | JUNE   | JULY   | AUG    | SEPT   | OCT    | NOV    | DEC    | TOTAL YEAR GALLONS |         |
|------|---------|-----|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------|---------|
| 2002 |         | 0   | 0   | 0      | 2900   | 162700 | 148200 | 400    | 400    | 0      | 200    | 2000   | 0                  | 316800  |
| 2003 |         | 0   | 0   | 0      | 17700  | 199400 | 334100 | 422000 | 428500 | 174700 | 150300 | 116900 | 0                  | 1843600 |
| 2004 |         | 0   | 0   | 0      | 0      | 175500 | 580100 | 358900 | 373700 | 450000 | 277800 | 6900   | 0                  | 2222900 |
| 2005 |         | 0   | 0   | 0      | 0      | 192800 | 950800 | 513900 | 528900 | 293600 | 35200  | 2800   | 0                  | 2518000 |
| 2006 |         | 0   | 0   | 171200 | 583700 | 411400 | 454000 | 26900  | 42900  | 55100  | 15000  | 3500   | 2800               | 1766500 |
| 2007 | 1314200 |     | 0   | 0      | 1400   | 71200  | 638500 | 355100 | 236400 | 569300 | 293200 | 110700 | 0                  | 3590000 |
| 2008 |         | 0   | 0   | 0      | 63000  | 306000 | 439500 | 466200 | 473000 | 383600 | 405900 | 48700  | 0                  | 2585900 |
| 2009 |         | 0   | 0   | 0      | 0      | 346700 | 401200 | 446700 | 494300 | 413500 | 211700 | 400    | 0                  | 2314500 |
| 2010 |         | 0   | 0   | 0      | 0      | 387900 | 579800 | 781300 | 443900 | 592100 | 738500 | 141200 | 0                  | 3664700 |
| 2011 |         | 0   | 0   | 0      | 0      | 394100 | 275300 | 555400 | 961100 | 207700 | 244600 | 46900  | 0                  | 2685100 |
| 2012 |         | 0   | 0   | 0      | 195000 | 526400 | 771400 | 941700 | 793900 | 651300 | 593700 | 215300 | 0                  | 4688700 |
| 2013 |         | 0   | 0   | 0      | 114100 | 383900 | 615200 | 567800 | 269400 | 540600 | 136100 | 75100  | 0                  | 2702200 |
| 2014 |         | 0   | 0   | 0      | 138500 | 402300 | 483400 | 589200 | 346800 | 547300 | 338700 | 105500 | 0                  | 2951700 |
| 2015 |         | 0   | 0   | 0      | 21800  | 238300 | 228800 | 546300 | 539700 | 721700 | 645200 | 0      | 0                  | 2941800 |



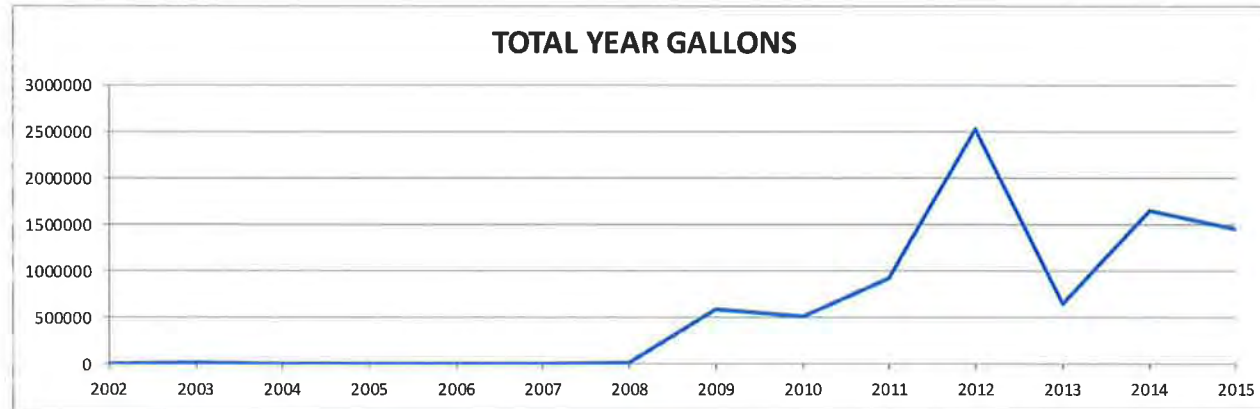
|                                                      |                                         |                                             |              |                                             |                                      |    |             |    |
|------------------------------------------------------|-----------------------------------------|---------------------------------------------|--------------|---------------------------------------------|--------------------------------------|----|-------------|----|
| <b>Project Name</b>                                  |                                         | <b>Las Acequias</b>                         |              | <b>Date</b>                                 | <b>June 25, 2015</b>                 |    |             |    |
| <b>Address</b>                                       |                                         |                                             |              | <b>Auditor</b>                              | <b>Sam</b>                           |    |             |    |
| <b>City, State</b>                                   |                                         |                                             |              | <b>Area/Zone/Station</b>                    | <b>1.00</b>                          |    |             |    |
|                                                      |                                         |                                             |              |                                             |                                      |    |             |    |
| <b>See instructions below on clearing input area</b> |                                         |                                             |              |                                             |                                      |    |             |    |
| <b>Test Area/Station</b>                             |                                         |                                             |              | <b>1</b>                                    |                                      |    |             |    |
| <b>Catch Device Area (A<sub>cd</sub>)</b>            |                                         |                                             |              | in <sup>2</sup>                             | <b>Test Run Time (t<sub>r</sub>)</b> |    | min         |    |
| <b>Catch Device Volumes</b>                          |                                         |                                             |              |                                             |                                      |    |             |    |
| 1                                                    | 23                                      | 17                                          | 20           | 33                                          | 7                                    | 49 | 65          | 81 |
| 2                                                    | 17                                      | 18                                          | 20           | 34                                          | 30                                   | 50 | 66          | 82 |
| 3                                                    | 50                                      | 19                                          | 1            | 35                                          | 25                                   | 51 | 67          | 83 |
| 4                                                    | 7                                       | 20                                          | 10           | 36                                          | 10                                   | 52 | 68          | 84 |
| 5                                                    | 0                                       | 21                                          | 6            | 37                                          |                                      | 53 | 69          | 85 |
| 6                                                    | 25                                      | 22                                          | 15           | 38                                          |                                      | 54 | 70          | 86 |
| 7                                                    | 25                                      | 23                                          | 45           | 39                                          |                                      | 55 | 71          | 87 |
| 8                                                    | 20                                      | 24                                          | 30           | 40                                          |                                      | 56 | 72          | 88 |
| 9                                                    | 20                                      | 25                                          | 17           | 41                                          |                                      | 57 | 73          | 89 |
| 10                                                   | 25                                      | 26                                          | 15           | 42                                          |                                      | 58 | 74          | 90 |
| 11                                                   | 12                                      | 27                                          | 20           | 43                                          |                                      | 59 | 75          | 91 |
| 12                                                   | 15                                      | 28                                          | 25           | 44                                          |                                      | 60 | 76          | 92 |
| 13                                                   | 16                                      | 29                                          | 10           | 45                                          |                                      | 61 | 77          | 93 |
| 14                                                   | 25                                      | 30                                          | 20           | 46                                          |                                      | 62 | 78          | 94 |
| 15                                                   | 26                                      | 31                                          | 17           | 47                                          |                                      | 63 | 79          | 95 |
| 16                                                   | 20                                      | 32                                          | 15           | 48                                          |                                      | 64 | 80          | 96 |
| <b>Number Catch Devices</b>                          |                                         |                                             | <b>36</b>    | <b>1/4 Number Catch Devices</b>             |                                      |    | <b>9</b>    |    |
| <b>Total Catch Volume</b>                            |                                         |                                             | <b>684</b>   | <b>Total Low Quarter</b>                    |                                      |    | <b>63</b>   |    |
| <b>Average Volume (V<sub>avg</sub>)</b>              |                                         |                                             | <b>19.00</b> | <b>Average Low Quarter (V<sub>lq</sub>)</b> |                                      |    | <b>7.00</b> |    |
| <b>Calculate Distribution Uniformity</b>             |                                         |                                             |              |                                             |                                      |    |             |    |
| <b>DU<sub>lq</sub> =</b>                             |                                         | <b>Average Low Quarter (V<sub>lq</sub>)</b> |              | <b>=</b>                                    | <b>0.37</b>                          |    |             |    |
|                                                      | <b>Average Volume (V<sub>avg</sub>)</b> |                                             |              |                                             |                                      |    |             |    |

Los Milagros  
4056 Los Milagros  
YEAR

Account # Meter # Size Service  
357721 9950317 2" Address  
31080

System DU report =  
38%

|      | JAN | FEB   | MAR | APR    | MAY    | JUNE   | JULY   | AUG    | SEPT   | OCT    | NOV    | DEC  | TOTAL YEAR GALLONS |
|------|-----|-------|-----|--------|--------|--------|--------|--------|--------|--------|--------|------|--------------------|
| 2002 | 0   | 0     | 0   | 0      | 0      | 100    | 0      | 0      | 0      | 0      | 0      | 0    | 100                |
| 2003 | 0   | 0     | 0   | 0      | 0      | 900    | 4500   | 5400   | 4800   | 3100   | 0      | 0    | 18700              |
| 2004 | 0   | 0     | 0   | 0      | 0      | 100    | 0      | 0      | 0      | 0      | 0      | 0    | 100                |
| 2005 | 0   | 0     | 0   | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0    | 0                  |
| 2006 | 0   | 0     | 100 | 0      | 0      | 0      | 700    | 0      | 0      | 0      | 0      | 0    | 800                |
| 2007 | 700 | 0     | 0   | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0    | 700                |
| 2008 | 0   | 0     | 0   | 16300  | 300    | 100    | 0      | 0      | 0      | 0      | 500    | 2700 | 19900              |
| 2009 | 0   | 0     | 0   | 600    | 6800   | 3800   | 2800   | 385200 | 75400  | 103100 | 17600  | 0    | 595300             |
| 2010 | 0   | 0     | 0   | 0      | 53500  | 84400  | 125700 | 51300  | 17300  | 55400  | 129400 | 0    | 517000             |
| 2011 | 0   | 0     | 0   | 46600  | 78700  | 62100  | 111400 | 279100 | 126400 | 209000 | 15600  | 0    | 928900             |
| 2012 | 0   | 0     | 0   | 114900 | 186800 | 198800 | 681500 | 615900 | 178200 | 282700 | 268100 | 0    | 2526900            |
| 2013 | 0   | 14700 | 0   | 12800  | 61100  | 101200 | 139000 | 118000 | 103900 | 47300  | 47800  | 0    | 645800             |
| 2014 | 0   | 0     | 0   | 85400  | 110100 | 224700 | 259200 | 309200 | 277400 | 295700 | 92600  | 0    | 1654300            |
| 2015 | 0   | 0     | 0   | 200    | 152500 | 158900 | 228000 | 256100 | 240400 | 322200 | 89800  | 0    | 1448100            |



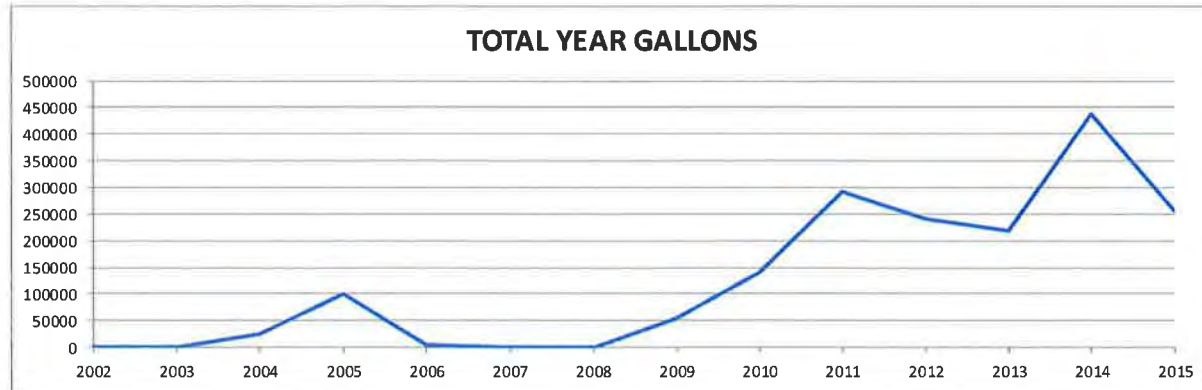
|                                               |                                             |                 |              |                          |                                             |            |             |    |
|-----------------------------------------------|---------------------------------------------|-----------------|--------------|--------------------------|---------------------------------------------|------------|-------------|----|
| <b>Project Name</b>                           |                                             | <b>Milagros</b> |              | <b>Date</b>              | <b>June 25, 2015</b>                        |            |             |    |
| <b>Address</b>                                |                                             |                 |              | <b>Auditor</b>           | <b>Sam</b>                                  |            |             |    |
| <b>City, State</b>                            |                                             |                 |              | <b>Area/Zone/Station</b> | <b>1.00</b>                                 |            |             |    |
| See instructions below on clearing input area |                                             |                 |              |                          |                                             |            |             |    |
| <b>Test Area/Station</b>                      |                                             |                 |              | <b>1</b>                 |                                             |            |             |    |
| <b>Catch Device Area (A<sub>CD</sub>)</b>     |                                             |                 |              | <b>in<sup>2</sup></b>    | <b>Test Run Time (t<sub>R</sub>)</b>        | <b>min</b> |             |    |
| <b>Catch Device Volumes</b>                   |                                             |                 |              |                          |                                             |            |             |    |
| 1                                             | 27                                          | 17              | 50           | 33                       | 7                                           | 49         | 65          | 81 |
| 2                                             | 48                                          | 18              | 10           | 34                       | 12                                          | 50         | 66          | 82 |
| 3                                             | 14                                          | 19              | 15           | 35                       | 3                                           | 51         | 67          | 83 |
| 4                                             | 20                                          | 20              | 40           | 36                       |                                             | 52         | 68          | 84 |
| 5                                             | 27                                          | 21              | 15           | 37                       |                                             | 53         | 69          | 85 |
| 6                                             | 18                                          | 22              | 20           | 38                       |                                             | 54         | 70          | 86 |
| 7                                             | 20                                          | 23              | 15           | 39                       |                                             | 55         | 71          | 87 |
| 8                                             | 10                                          | 24              | 13           | 40                       |                                             | 56         | 72          | 88 |
| 9                                             | 10                                          | 25              | 28           | 41                       |                                             | 57         | 73          | 89 |
| 10                                            | 14                                          | 26              | 30           | 42                       |                                             | 58         | 74          | 90 |
| 11                                            | 6                                           | 27              | 5            | 43                       |                                             | 59         | 75          | 91 |
| 12                                            | 30                                          | 28              | 16           | 44                       |                                             | 60         | 76          | 92 |
| 13                                            | 45                                          | 29              | 15           | 45                       |                                             | 61         | 77          | 93 |
| 14                                            | 15                                          | 30              | 10           | 46                       |                                             | 62         | 78          | 94 |
| 15                                            | 18                                          | 31              | 26           | 47                       |                                             | 63         | 79          | 95 |
| 16                                            | 40                                          | 32              | 8            | 48                       |                                             | 64         | 80          | 96 |
| <b>Number Catch Devices</b>                   |                                             |                 | <b>35</b>    |                          | <b>1/4 Number Catch Devices</b>             |            | <b>9</b>    |    |
| <b>Total Catch Volume</b>                     |                                             |                 | <b>700</b>   |                          | <b>Total Low Quarter</b>                    |            | <b>69</b>   |    |
| <b>Average Volume (V<sub>avg</sub>)</b>       |                                             |                 | <b>20.00</b> |                          | <b>Average Low Quarter (V<sub>iq</sub>)</b> |            | <b>7.67</b> |    |
| Calculate Distribution Uniformity             |                                             |                 |              |                          |                                             |            |             |    |
| <b>DU<sub>iq</sub> =</b>                      | <b>Average Low Quarter (V<sub>iq</sub>)</b> |                 | <b>=</b>     |                          | <b>0.38</b>                                 |            |             |    |
|                                               | <b>Average Volume (V<sub>avg</sub>)</b>     |                 |              |                          |                                             |            |             |    |



Candelerio  
2213 Brillante St  
YEAR

Account # Meter# Size Service Address  
359671 9956531 1 1/2" 31957

|      | JAN | FEB | MAR   | APR   | MAY   | JUNE  | JULY  | AUG    | SEPT  | OCT   | NOV   | DEC | TOTAL YEAR GALLONS |
|------|-----|-----|-------|-------|-------|-------|-------|--------|-------|-------|-------|-----|--------------------|
| 2002 | 0   | 0   | 0     | 0     | 0     | 0     | 0     | 0      | 0     | 0     | 0     | 0   | 0                  |
| 2003 | 0   | 0   | 0     | 0     | 0     | 0     | 100   | 0      | 0     | 0     | 0     | 0   | 100                |
| 2004 | 0   | 0   | 0     | 0     | 4100  | 6100  | 10600 | 0      | 2100  | 2900  | 0     | 0   | 25800              |
| 2005 | 0   | 0   | 0     | 2100  | 1700  | 21300 | 19200 | 29100  | 14000 | 0     | 13100 | 0   | 100500             |
| 2006 | 0   | 0   | 0     | 0     | 1600  | 1100  | 900   | 800    | 700   | 500   | 100   | 0   | 5700               |
| 2007 | 0   | 0   | 0     | 0     | 0     | 0     | 0     | 0      | 0     | 0     | 0     | 0   | 0                  |
| 2008 | 0   | 0   | 0     | 0     | 0     | 0     | 0     | 0      | 0     | 0     | 0     | 0   | 0                  |
| 2009 | 0   | 0   | 28400 | 4700  | 4700  | 0     | 6600  | 1900   | 1400  | 5300  | 1900  | 0   | 54900              |
| 2010 | 0   | 0   | 0     | 0     | 100   | 900   | 17600 | 38200  | 37800 | 46100 | 0     | 0   | 140700             |
| 2011 | 0   | 0   | 0     | 40300 | 1002  | 53100 | 66700 | 77700  | 23600 | 28700 | 100   | 0   | 291202             |
| 2012 | 0   | 0   | 0     | 8400  | 44900 | 43500 | 51700 | 34600  | 25200 | 26000 | 8300  | 0   | 242600             |
| 2013 | 0   | 0   | 0     | 5100  | 21900 | 62900 | 68200 | 26600  | 32500 | 1200  | 0     | 0   | 218400             |
| 2014 | 0   | 0   | 0     | 5500  | 32200 | 66500 | 66800 | 123400 | 64200 | 69500 | 11100 | 0   | 439200             |
| 2015 | 0   | 0   | 0     | 3500  | 32200 | 24700 | 49000 | 50100  | 46100 | 51500 | 0     | 0   | 257100             |





GCCC

Account # Meter # Size Service Address  
554456 9940950 2" 47053

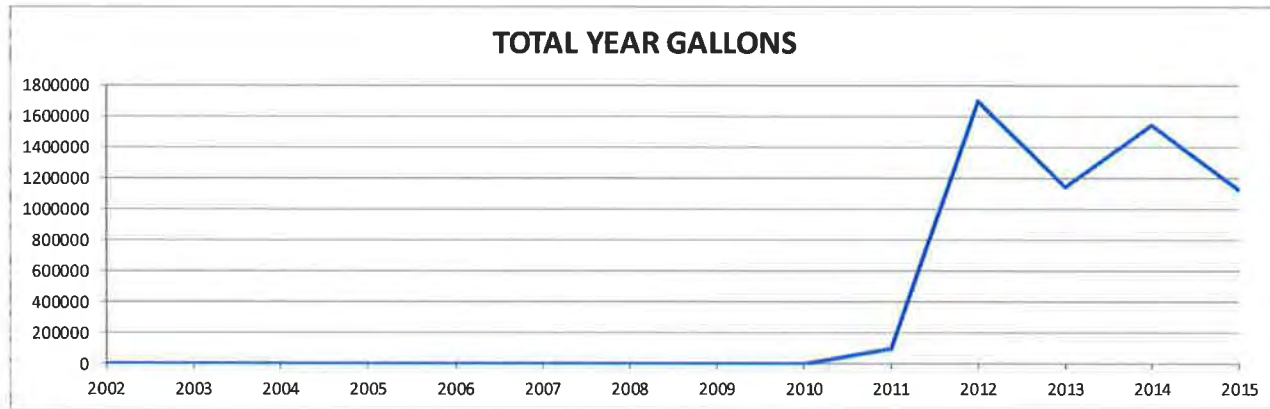
YEAR

2002  
2003  
2004  
2005  
2006  
2007  
2008  
2009  
2010  
2011  
2012  
2013  
2014  
2015

| JAN | FEB | MAR | APR | MAY   | JUNE   | JULY   | AUG    | SEPT   | OCT    | NOV    | DEC   | TOTAL YEAR GALLONS |
|-----|-----|-----|-----|-------|--------|--------|--------|--------|--------|--------|-------|--------------------|
|     |     |     |     |       |        |        |        |        |        |        |       | 0                  |
|     |     |     |     |       |        |        |        |        |        |        |       | 0                  |
|     |     |     |     |       |        |        |        |        |        |        |       | 0                  |
|     |     |     |     |       |        |        |        |        |        |        |       | 0                  |
|     |     |     |     |       |        |        |        |        |        |        |       | 0                  |
|     |     |     |     |       |        |        |        |        |        |        |       | 0                  |
|     |     |     |     |       |        |        |        |        |        |        |       | 0                  |
|     |     |     |     |       |        |        |        |        |        |        |       | 0                  |
|     |     |     |     |       |        |        |        |        |        |        |       | 0                  |
|     |     |     |     |       |        |        |        |        | 80400  | 23400  | 0     | 103800             |
|     | 0   | 0   | 0   | 0     | 383900 | 195500 | 353100 | 253600 | 239800 | 204000 | 65000 | 1694900            |
|     | 0   | 0   | 0   | 69300 | 200100 | 208300 | 221800 | 129200 | 223100 | 46900  | 45600 | 1144300            |
|     | 0   | 0   | 0   | 17700 | 193600 | 275200 | 280500 | 266100 | 320200 | 140200 | 51300 | 1544800            |
|     | 0   | 0   | 0   | 2400  | 137300 | 122600 | 217700 | 206300 | 228800 | 211600 | 0     | 1126700            |



DU = 31%

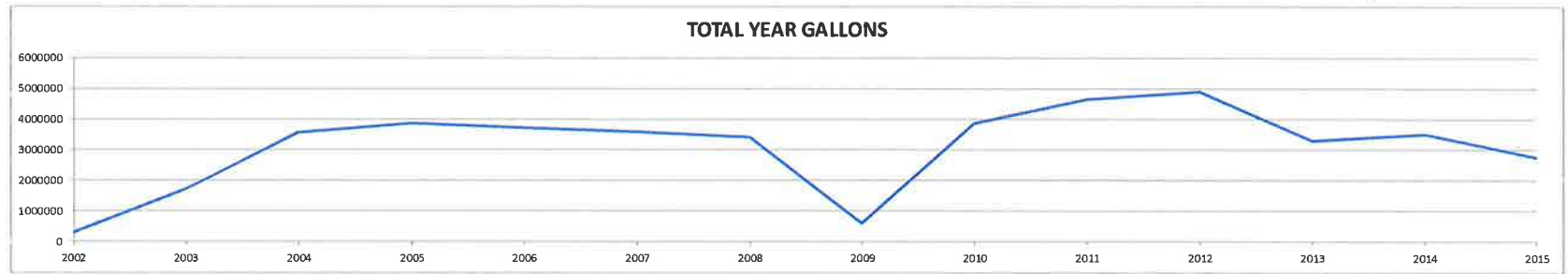


New Park 2010/2011

|                                                      |     |                                            |              |                          |                                            |                                      |              |
|------------------------------------------------------|-----|--------------------------------------------|--------------|--------------------------|--------------------------------------------|--------------------------------------|--------------|
| <b>Project Name</b>                                  |     | <b>GCCC</b>                                |              | <b>Date</b>              |                                            | <b>June 18, 2015</b>                 |              |
| <b>Address</b>                                       |     |                                            |              | <b>Auditor</b>           |                                            | <b>Sam</b>                           |              |
| <b>City, State</b>                                   |     |                                            |              | <b>Area/Zone/Station</b> |                                            | <b>1.00</b>                          |              |
|                                                      |     |                                            |              |                          |                                            |                                      |              |
| <b>See instructions below on clearing input area</b> |     |                                            |              |                          |                                            |                                      |              |
| <b>Test Area/Station</b>                             |     |                                            |              | <b>1</b>                 |                                            |                                      |              |
| <b>Catch Device Area (A<sub>cd</sub>)</b>            |     |                                            |              |                          | in <sup>2</sup>                            | <b>Test Run Time (t<sub>r</sub>)</b> | min          |
| <b>Catch Device Volumes</b>                          |     |                                            |              |                          |                                            |                                      |              |
| 1                                                    | 100 | 17                                         | 20           | 33                       | 35                                         | 49                                   | 60 65        |
| 2                                                    | 50  | 18                                         | 25           | 34                       | 25                                         | 50                                   | 50 66        |
| 3                                                    | 50  | 19                                         | 25           | 35                       | 75                                         | 51                                   | 25 67        |
| 4                                                    | 80  | 20                                         | 0            | 36                       | 70                                         | 52                                   | 25 68        |
| 5                                                    | 45  | 21                                         | 0            | 37                       | 0                                          | 53                                   | 25 69        |
| 6                                                    | 50  | 22                                         | 0            | 38                       | 40                                         | 54                                   | 0 70         |
| 7                                                    | 50  | 23                                         | 20           | 39                       | 55                                         | 55                                   | 10 71        |
| 8                                                    | 40  | 24                                         | 35           | 40                       | 50                                         | 56                                   | 20 72        |
| 9                                                    | 60  | 25                                         | 45           | 41                       | 35                                         | 57                                   | 25 73        |
| 10                                                   | 35  | 26                                         | 40           | 42                       | 30                                         | 58                                   | 15 74        |
| 11                                                   | 35  | 27                                         | 40           | 43                       | 90                                         | 59                                   | 15 75        |
| 12                                                   | 35  | 28                                         | 25           | 44                       | 80                                         | 60                                   | 10 76        |
| 13                                                   | 40  | 29                                         | 40           | 45                       | 50                                         | 61                                   | 77           |
| 14                                                   | 25  | 30                                         | 30           | 46                       | 80                                         | 62                                   | 78           |
| 15                                                   | 30  | 31                                         | 40           | 47                       | 95                                         | 63                                   | 79           |
| 16                                                   | 35  | 32                                         | 40           | 48                       | 110                                        | 64                                   | 80           |
| <b>Number Catch Devices</b>                          |     |                                            | <b>60</b>    |                          | <b>1/4 Number Catch Devices</b>            |                                      | <b>15</b>    |
| <b>Total Catch Volume</b>                            |     |                                            | <b>2385</b>  |                          | <b>Total Low Quarter</b>                   |                                      | <b>185</b>   |
| <b>Average Volume (V<sub>avg</sub>)</b>              |     |                                            | <b>39.75</b> |                          | <b>Average Low Quarter (V<sub>q</sub>)</b> |                                      | <b>12.33</b> |
| <b>Calculate Distribution Uniformity</b>             |     |                                            |              |                          |                                            |                                      |              |
| <b>DU<sub>La</sub> =</b>                             |     | <b>Average Low Quarter (V<sub>q</sub>)</b> |              | <b>=</b>                 | <b>0.31</b>                                |                                      |              |
|                                                      |     | <b>Average Volume (V<sub>avg</sub>)</b>    |              |                          |                                            |                                      |              |

|               |                   |         |                 |
|---------------|-------------------|---------|-----------------|
| Account #     | Meter #           | Size    | Service Address |
| Herb Martinez | 360575 99583441/2 | 4" & 4" | 31396           |

| YEAR | JAN A | JAN B | FEB A | FEB B | MAR A  | MAR B | APR A | APR B  | MAY A  | MAY B  | JUNE A | JUNE B  | JULY A | JULY B | AUG A  | AUG B  | SEPT A | SEPT B | OCT A  | OCT B  | NOV A  | NOV B   | DEC A  | DEC B | TOTAL YEAR GALLONS |         |
|------|-------|-------|-------|-------|--------|-------|-------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|-------|--------------------|---------|
| 2002 | 0     | 0     | 0     | 0     | 0      | 0     | 12600 | 27600  | 25700  | 102500 | 23000  | 98400   | 2500   | 9300   | 300    | 0      | 300    | 0      | 400    | 1300   | 100    | 0       | 0      | 0     | 304000             |         |
| 2003 | 0     | 0     | 0     | 0     | 0      | 0     | 1000  | 4100   | 31600  | 112100 | 76300  | 236000  | 97200  | 285300 | 100700 | 289700 | 55900  | 163200 | 42800  | 126800 | 28900  | 84500   | 0      | 0     | 1736100            |         |
| 2004 | 0     | 0     | 0     | 0     | 0      | 0     | 1300  | 0      | 91400  | 276400 | 201200 | 620500  | 180100 | 600500 | 114100 | 374000 | 147100 | 489500 | 96300  | 343800 | 11500  | 37100   | 0      | 0     | 3584800            |         |
| 2005 | 0     | 0     | 0     | 0     | 0      | 0     | 100   | 2900   | 13000  | 47900  | 163600 | 231000  | 854000 | 178900 | 690400 | 153500 | 516700 | 84800  | 513600 | 0      | 310600 | 0       | 118100 | 0     | 0                  | 3879100 |
| 2006 | 0     | 0     | 0     | 0     | 168000 | 3400  | 0     | 419300 | 246500 | 441000 | 174400 | 510800  | 117500 | 357300 | 65900  | 250800 | 92300  | 241700 | 114200 | 319300 | 58900  | 132500  | 0      | 0     | 3713800            |         |
| 2007 | 0     | 0     | 0     | 0     | 1400   | 300   | 58300 | 101100 | 78100  | 257700 | 76300  | 247400  | 145500 | 717700 | 268000 | 175600 | 128200 | 949100 | 53800  | 336300 | 15100  | 0       | 4900   | 0     | 3614800            |         |
| 2008 | 14300 | 0     | 17700 | 0     | 15800  | 0     | 22900 | 142800 | 56400  | 324800 | 111900 | 584600  | 95300  | 609100 | 64400  | 382400 | 64000  | 343500 | 117300 | 366900 | 11400  | 63500   | 0      | 0     | 3409000            |         |
| 2009 | 1200  | 0     | 2900  | 0     | 0      | 0     | 17400 | 0      | 1400   | 0      | 55900  | 111800  | 109100 | 700    | 123800 | 200    | 85700  | 1100   | 71900  | 8500   | 11200  | 0       | 0      | 0     | 602800             |         |
| 2010 | 0     | 0     | 0     | 0     | 0      | 0     | 20700 | 400    | 78000  | 329300 | 148000 | 595400  | 751900 | 518400 | 27200  | 185000 | 149300 | 454300 | 113500 | 391700 | 24300  | 82100   | 0      | 0     | 3869500            |         |
| 2011 | 0     | 0     | 0     | 0     | 0      | 0     | 20400 | 94300  | 126500 | 382300 | 131900 | 0       | 251000 | 0      | 239800 | 0      | 97500  | 0      | 62300  | 0      | 13100  | 3233300 | 0      | 0     | 4652400            |         |
| 2012 | 0     | 0     | 0     | 0     | 0      | 0     | 33600 | 183900 | 113600 | 412200 | 70400  | 532900  | 103200 | 780500 | 101600 | 818500 | 84200  | 753800 | 77000  | 557200 | 50100  | 221600  | 0      | 0     | 4894300            |         |
| 2013 | 0     | 0     | 0     | 0     | 0      | 0     | 20900 | 153500 | 57600  | 426500 | 82100  | 624800  | 68300  | 530600 | 41700  | 307100 | 80700  | 570000 | 101500 | 132100 | 27100  | 80200   | 0      | 0     | 3304700            |         |
| 2014 | 0     | 0     | 0     | 0     | 0      | 0     | 0     | 219800 | 0      | 0      | 145500 | 1143800 | 82000  | 575200 | 49300  | 346100 | 64100  | 442700 | 44800  | 100500 | 17100  | 287700  | 0      | 0     | 3518600            |         |
| 2015 | 0     | 0     | 0     | 0     | 0      | 0     | 2300  | 17800  | 44200  | 272100 | 38000  | 241900  | 71100  | 450900 | 64500  | 407300 | 84400  | 555700 | 75300  | 436100 | 0      | 0       | 0      | 0     | 2761600            |         |



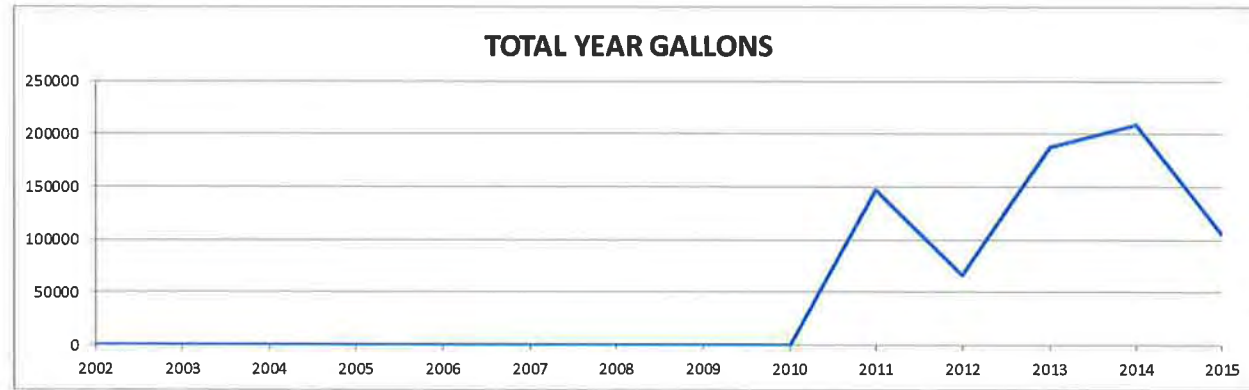
Irrigation upgrades 2009/2010 - new turf /trees/playground

1270 W ALAMEDA ST IRR.

Account #    Meter #    Size    Service  
549714    9956523    1"    46489

YEAR

| JAN  | FEB | MAR | APR | MAY   | JUNE  | JULY  | AUG   | SEPT  | OCT   | NOV    | DEC  | TOTAL YEAR GALLONS |
|------|-----|-----|-----|-------|-------|-------|-------|-------|-------|--------|------|--------------------|
| 2002 |     |     |     |       |       |       |       |       |       |        |      | 0                  |
| 2003 |     |     |     |       |       |       |       |       |       |        |      | 0                  |
| 2004 |     |     |     |       |       |       |       |       |       |        |      | 0                  |
| 2005 |     |     |     |       |       |       |       |       |       |        |      | 0                  |
| 2006 |     |     |     |       |       |       |       |       |       |        |      | 0                  |
| 2007 |     |     |     |       |       |       |       |       |       |        |      | 0                  |
| 2008 |     |     |     |       |       |       |       |       |       |        |      | 0                  |
| 2009 |     |     |     |       |       |       |       |       |       |        |      | 0                  |
| 2010 |     |     |     |       |       |       |       |       |       |        |      | 0                  |
| 2011 | 0   | 0   | 0   | 0     | 0     | 0     | 0     | 0     | 0     | 147400 | 0    | 147400             |
| 2012 | 0   | 0   | 0   | 3400  | 12300 | 0     | 0     | 0     | 0     | 47800  | 3400 | 66900              |
| 2013 | 0   | 0   | 0   | 3200  | 32700 | 41400 | 39400 | 22900 | 34300 | 7300   | 7000 | 188200             |
| 2014 | 0   | 0   | 0   | 94100 | 16100 | 22800 | 22800 | 13600 | 21300 | 13100  | 5600 | 209400             |
| 2015 | 0   | 0   | 0   | 0     | 13900 | 12500 | 22700 | 13100 | 22500 | 21000  | 0    | 105700             |



New open space area added - Trees

| Walk-Through Irrigation System Audit and Site Evaluation |                                               |                                        |                 |                  |                                                                                                                                                                       |                  |
|----------------------------------------------------------|-----------------------------------------------|----------------------------------------|-----------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| Site Name: SF River - Camino Alire to Feedbin            |                                               |                                        |                 | Contacts:        |                                                                                                                                                                       |                  |
| Site Address: 1270 W ALAMEDA ST IRRIGATION               |                                               |                                        |                 | Phone #:         |                                                                                                                                                                       |                  |
| Surveyor: Sam                                            |                                               | Time: Start 11:00 AM<br>Finish 2:30 PM |                 | Contacts:        |                                                                                                                                                                       |                  |
| Survey Date: 06/23/2015                                  |                                               | Catch Cup Date:                        |                 | Phone #:         |                                                                                                                                                                       |                  |
| Landscape (sq. ft):                                      |                                               |                                        |                 | Turf (sq. ft):   |                                                                                                                                                                       | Shrubs (sq. ft): |
| Meter #'s                                                | Begin Read                                    | End Read                               | Backflow PSI    | Comments:        |                                                                                                                                                                       |                  |
| 9956523                                                  | 6385                                          | 640193                                 | static          | dynam            | Point of connection to point of distribution is restricted due to improper pipe size for this long of a run. Pipe friction loss resulting in low volume and pressure. |                  |
| 19                                                       |                                               |                                        | 128             | 50               |                                                                                                                                                                       |                  |
|                                                          |                                               |                                        |                 |                  |                                                                                                                                                                       |                  |
|                                                          |                                               |                                        |                 |                  |                                                                                                                                                                       |                  |
|                                                          |                                               |                                        |                 |                  |                                                                                                                                                                       |                  |
|                                                          |                                               |                                        |                 |                  |                                                                                                                                                                       |                  |
|                                                          |                                               |                                        |                 |                  |                                                                                                                                                                       |                  |
|                                                          |                                               |                                        |                 |                  |                                                                                                                                                                       |                  |
| Zone                                                     | Head or Sprinkler Type and Location if needed | Head #                                 | Test Time (min) | Head PSI on Zone |                                                                                                                                                                       |                  |
| 1                                                        | Rain Bird .50 GPM Bubbler                     | 22                                     | 20              |                  | Target: 440 GAL<br>11 Trees                                                                                                                                           |                  |
|                                                          |                                               |                                        |                 |                  | Actual: 230 GAL 52%                                                                                                                                                   |                  |
| 2                                                        | Rain Bird .50 GPM Bubbler                     |                                        |                 |                  | Target: 360 GAL<br>12 Trees                                                                                                                                           |                  |
|                                                          |                                               |                                        |                 |                  | Actual: 259 GAL 72%                                                                                                                                                   |                  |
| 3                                                        | Rain Bird .50 GPM Bubbler                     |                                        |                 |                  | Target: 330 GAL<br>11 Trees                                                                                                                                           |                  |
|                                                          |                                               |                                        |                 |                  | Actual: 325 GAL 98%                                                                                                                                                   |                  |
| 4                                                        | Rain Bird .50 GPM Bubbler                     |                                        |                 |                  | Target: 360 GAL<br>12 Trees                                                                                                                                           |                  |
|                                                          |                                               |                                        |                 |                  | Actual: 349 GAL 87%                                                                                                                                                   |                  |
| 5                                                        |                                               |                                        |                 |                  |                                                                                                                                                                       |                  |

T=Slanted, C=Clogged, B=Blocked Spray, BS=Broken Stem, BH=Broken Head, BN=Broken Nozzle, CO=Cap Off, WS=Wrong Spacing, WA=Wrong Arc, RD=Radius Screw Down Too Far, RF=Runoff, OV= Overspray, LH= Low Head, LPS=Low Pressure at Head, UP=Stuck Up, RT= Rotation Too Fast, MH= Missing Head, BV= Broken Valve, NC= Nozzle Color, CN= Can Not Find, NST=No Start Time, MPR= MP Rotator Nozzles/Heads Recommended for this area, RX=Remove turf for Xeriscape or Shrub Bed, (Count number of Trees, Shrubs per Zone), Additional Notes as needed



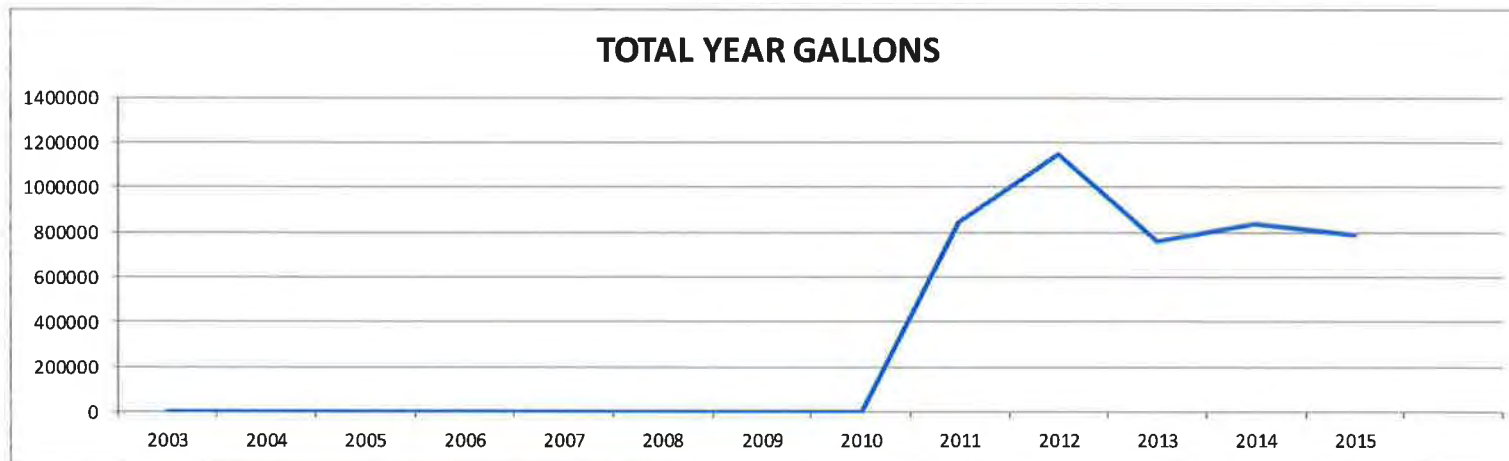


| Walk-Through Irrigation System Audit and Site Evaluation |                                               |                              |                 |                  |                          |                   |
|----------------------------------------------------------|-----------------------------------------------|------------------------------|-----------------|------------------|--------------------------|-------------------|
| Site Name: SF River - #2                                 |                                               |                              |                 | Contacts:        |                          |                   |
| Site Address:                                            |                                               |                              |                 | Phone #:         |                          |                   |
| Surveyor: Sam                                            |                                               | Time: Start ____ Finish ____ |                 | Contacts:        |                          |                   |
| Survey Date:                                             |                                               | Catch Cup Date:              |                 | Phone #:         |                          |                   |
| Landscape (sq. ft.):                                     |                                               |                              |                 | Turf (sq. ft.):  |                          | Shrubs (sq. ft.): |
| Meter #'s                                                |                                               |                              |                 | Comments:        |                          |                   |
| Begin Read                                               |                                               | End Read                     |                 | Backflow PSI     |                          |                   |
| 4713911                                                  | 10912825                                      | 10913564                     | static          | dynamic          |                          |                   |
| 4713912                                                  |                                               | 1021472                      | 130             | 118              |                          |                   |
|                                                          |                                               |                              |                 |                  |                          |                   |
|                                                          |                                               |                              |                 |                  |                          |                   |
|                                                          |                                               |                              |                 |                  |                          |                   |
|                                                          |                                               |                              |                 |                  |                          |                   |
| Zone                                                     | Head or Sprinkler Type and Location if needed | Head #                       | Test Time (min) | Head PSI on Zone |                          |                   |
| Catch Cup Count                                          |                                               |                              |                 |                  |                          |                   |
| 1                                                        | RN .50 GPM                                    | 60                           | 20              |                  | Target: 600 Gal 20 Trees |                   |
|                                                          |                                               |                              |                 |                  | Actual: 1156 Gal 193%    |                   |
| 2                                                        | RB .50 GPM                                    | 24                           | 20              |                  | Target: 240 Gal 8 trees  |                   |
|                                                          |                                               |                              |                 |                  | Actual: 739 Gal 308%     |                   |
| 3                                                        |                                               |                              |                 |                  |                          |                   |
|                                                          |                                               |                              |                 |                  |                          |                   |
| 4                                                        |                                               |                              |                 |                  |                          |                   |
|                                                          |                                               |                              |                 |                  |                          |                   |
| 5                                                        |                                               |                              |                 |                  |                          |                   |

|                       |     |     |     | Service   |         |        |         |        |        |        |       |     |                    |  |
|-----------------------|-----|-----|-----|-----------|---------|--------|---------|--------|--------|--------|-------|-----|--------------------|--|
|                       |     |     |     | Account # | Meter # | Size   | Address |        |        |        |       |     |                    |  |
| Nava Ade              |     |     |     |           |         |        |         |        |        |        |       |     |                    |  |
| 4371 Laughing Crow Ln |     |     |     | 552175    | 9957709 | 2"     | 46808   |        |        |        |       |     |                    |  |
| YEAR                  | JAN | FEB | MAR | APR       | MAY     | JUNE   | JULY    | AUG    | SEPT   | OCT    | NOV   | DEC | TOTAL YEAR GALLONS |  |
| 2002                  |     |     |     |           |         |        |         |        |        |        |       |     | 0                  |  |
| 2003                  |     |     |     |           |         |        |         |        |        |        |       |     | 0                  |  |
| 2004                  |     |     |     |           |         |        |         |        |        |        |       |     | 0                  |  |
| 2005                  |     |     |     |           |         |        |         |        |        |        |       |     | 0                  |  |
| 2006                  |     |     |     |           |         |        |         |        |        |        |       |     | 0                  |  |
| 2007                  |     |     |     |           |         |        |         |        |        |        |       |     | 0                  |  |
| 2008                  |     |     |     |           |         |        |         |        |        |        |       |     | 0                  |  |
| 2009                  |     |     |     |           |         |        |         |        |        |        |       |     | 0                  |  |
| 2010                  |     |     |     |           |         |        |         |        |        |        |       |     | 0                  |  |
| 2011                  |     |     |     |           | 6500    | 25100  | 55500   | 737300 | 5856   | 6257   | 7900  | 0   | 844413             |  |
| 2012                  |     |     |     | 48100     | 183200  | 126100 | 251100  | 199100 | 175700 | 133400 | 31100 | 0   | 1147800            |  |
| 2013                  |     |     |     | 50400     | 162700  | 167500 | 141600  | 70200  | 125100 | 26700  | 21600 | 0   | 765800             |  |
| 2014                  |     |     |     | 9600      | 82800   | 146500 | 160000  | 140200 | 168400 | 93300  | 41400 | 0   | 842200             |  |
| 2015                  |     |     |     | 1400      | 91500   | 72600  | 147200  | 149100 | 159200 | 169900 | 0     | 0   | 790900             |  |



DU = 45%



New Park 2010/2011

|                                                      |     |                                             |     |                                             |                                      |              |    |
|------------------------------------------------------|-----|---------------------------------------------|-----|---------------------------------------------|--------------------------------------|--------------|----|
| <b>Project Name</b>                                  |     | <b>Nava Ade</b>                             |     | <b>Date</b>                                 | <b>June 18, 2015</b>                 |              |    |
| <b>Address</b>                                       |     |                                             |     | <b>Auditor</b>                              | <b>Sam</b>                           |              |    |
| <b>City, State</b>                                   |     |                                             |     | <b>Area/Zone/Station</b>                    | <b>1.00</b>                          |              |    |
| <b>See instructions below on clearing input area</b> |     |                                             |     |                                             |                                      |              |    |
| <b>Test Area/Station</b>                             |     |                                             |     | <b>1</b>                                    |                                      |              |    |
| <b>Catch Device Area (A<sub>cd</sub>)</b>            |     |                                             |     | in <sup>2</sup>                             | <b>Test Run Time (t<sub>o</sub>)</b> | min          |    |
| <b>Catch Device Volumes</b>                          |     |                                             |     |                                             |                                      |              |    |
| 1                                                    | 20  | 17                                          | 60  | 33                                          | 100                                  | 49           | 65 |
| 2                                                    | 110 | 18                                          | 125 | 34                                          | 115                                  | 50           | 66 |
| 3                                                    | 95  | 19                                          | 130 | 35                                          | 130                                  | 51           | 67 |
| 4                                                    | 95  | 20                                          | 190 | 36                                          | 85                                   | 52           | 68 |
| 5                                                    | 95  | 21                                          | 80  | 37                                          | 120                                  | 53           | 69 |
| 6                                                    | 160 | 22                                          | 55  | 38                                          | 170                                  | 54           | 70 |
| 7                                                    | 130 | 23                                          | 150 | 39                                          | 110                                  | 55           | 71 |
| 8                                                    | 110 | 24                                          | 90  | 40                                          | 50                                   | 56           | 72 |
| 9                                                    | 65  | 25                                          | 125 | 41                                          |                                      | 57           | 73 |
| 10                                                   | 95  | 26                                          | 75  | 42                                          |                                      | 58           | 74 |
| 11                                                   | 85  | 27                                          | 110 | 43                                          |                                      | 59           | 75 |
| 12                                                   | 60  | 28                                          | 100 | 44                                          |                                      | 60           | 76 |
| 13                                                   | 30  | 29                                          | 45  | 45                                          |                                      | 61           | 77 |
| 14                                                   | 95  | 30                                          | 25  | 46                                          |                                      | 62           | 78 |
| 15                                                   | 50  | 31                                          | 180 | 47                                          |                                      | 63           | 79 |
| 16                                                   | 80  | 32                                          | 130 | 48                                          |                                      | 64           | 80 |
| <b>Number Catch Devices</b>                          |     | <b>40</b>                                   |     | <b>1/4 Number Catch Devices</b>             |                                      | <b>10</b>    |    |
| <b>Total Catch Volume</b>                            |     | <b>3925</b>                                 |     | <b>Total Low Quarter</b>                    |                                      | <b>460</b>   |    |
| <b>Average Volume (V<sub>avg</sub>)</b>              |     | <b>98.13</b>                                |     | <b>Average Low Quarter (V<sub>lq</sub>)</b> |                                      | <b>46.00</b> |    |
| <b>Calculate Distribution Uniformity</b>             |     |                                             |     |                                             |                                      |              |    |
| <b>DU<sub>lq</sub> =</b>                             |     | <b>Average Low Quarter (V<sub>lq</sub>)</b> |     | <b>=</b>                                    | <b>0.47</b>                          |              |    |
|                                                      |     | <b>Average Volume (V<sub>avg</sub>)</b>     |     |                                             |                                      |              |    |

# City of Santa Fe, New Mexico

# memo

**Date:** May 4, 2016

**To:** Public Utilities Committee

**Via:** Nick Schiavo, Public Utilities Director  
Rick Carpenter, Acting Water Division Director & Water Resources and Conservation Manager *RC*

**From:** Marquita Ortiz, Water Resources Analyst *MO*  
Alan Hook, Water Resources Coordinator Assistant

**Re:** Presentation of the 2015 Annual Water Report as an informational item

---

## **Purpose:**

The 2015 Annual Water Report compiles and summarizes useful information about the City of Santa Fe's Water Division (Water Division) including the water supply, water production, deliveries, conserved water, treated effluent, and utility customer use. The information presented in this report contains water data through December 2015 and projections through 2016.

The purpose of this report is to provide the Santa Fe community with an annual summary of the state of the Water Division and the water supplies we depend upon. This report is submitted pursuant to City Code Section 25-9.6 SFCC 1987 and summarizes information about the Water Division's water supplies and the customers' drinking water usage.

Highlights of this report include:

- Water Supply production of 8,167 acre-feet, including Buckman Regional Water Treatment Plant deliveries to the City of Santa Fe, including wholesale deliveries of 105 acre-feet to Santa Fe County Water Utility.
- Completion of construction at McClure Reservoir to install a new intake tower.
- Reduction in service-area gallons per capita per day (gpcd) demand of 90 (down from 95 gpcd in 2014).

## **Requested Action:**

Staff requests that the Public Utilities Committee review the 2015 Annual Water Report and forward it to the full City Council for final review.





# ANNUAL WATER REPORT



2015

City of Santa Fe 💧 Water Division



# CITY OF SANTA FE, NEW MEXICO

Javier M. Gonzales, Mayor

Brian Snyder, City Manager

## City Councilors

Peter N. Ives, Mayor Pro Tem, District 2

Renee Villarreal, District 1

Signe I. Lindell, District 1

Joseph M. Maestas, District 2

Carmichael A Dominguez, District 3

Cristopher M. Rivera, District 3

Ronald S. Trujillo, District 4

Mike Harris, District 4

## Compiled, written and edited by the

Water Resources Staff

City of Santa Fe Water Division

801 W. San Mateo Road

Santa Fe, NM 87504

## Contributing Departments, Divisions and Sections

City Attorney's Office

ITT Department

Land Use Department

Utility Billing & Customer Service Division

Wastewater Division

Water Budget Office

Water Conservation Office

## Acknowledgements

Victor Archuleta

David Barsanti

Chuck Bear

Diana Catanach

Rick Carpenter

Christine Chavez

Brian Drypolcher

Andrew Erdmann

Kathleen Garcia

Caryn Grosse

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Bryan Romero

Nick Schiavo

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For more information visit [www.santafenm.gov/water\\_division](http://www.santafenm.gov/water_division)

Cover Photo: Nichols Reservoir in the Upper Santa Fe Municipal Watershed

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## EXECUTIVE SUMMARY

The purpose of this report is to provide information about the state of the City of Santa Fe's Water Division and the water supplies we depend upon.

This report is submitted pursuant to City Code Section 25-9.6 SFCC 1987 and summarizes information about the City of Santa Fe's Water Division including water supply, water rights, water demand, types of water use, drought and precipitation, and water utility management information.

The City's surface water supply comes from the **Santa Fe River** and **Rio Grande**, both of which are treated through conventional and advanced treatment processes.

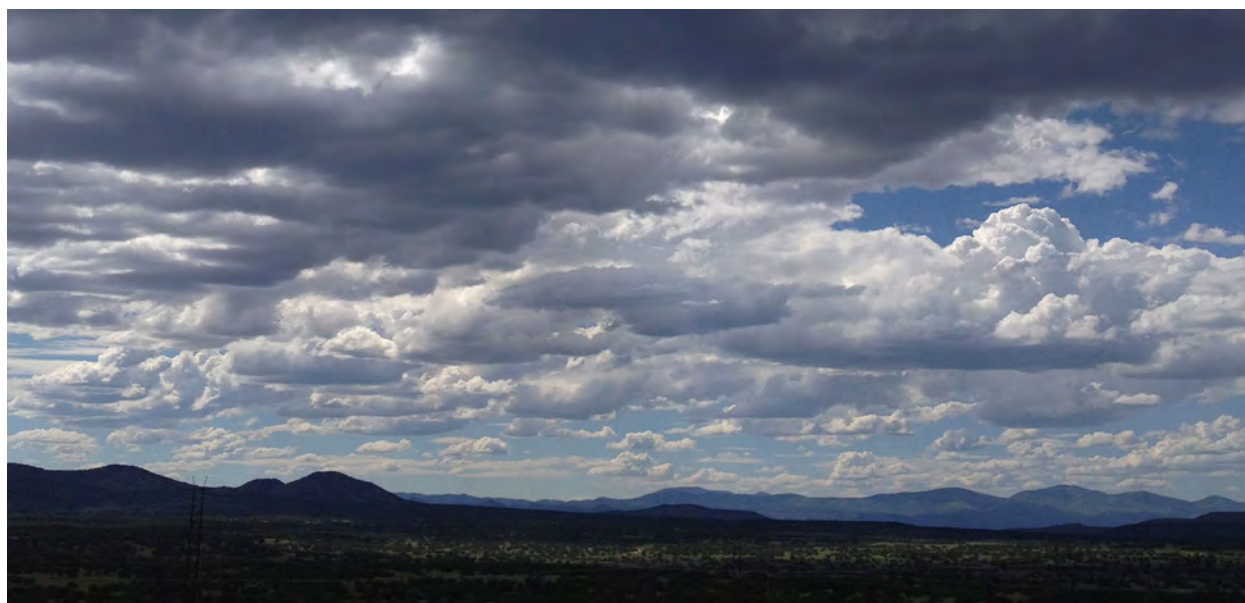
The **City Well Field** is mostly located in close proximity to the Santa Fe River and consists of 7 active wells located within the City limits of Santa Fe. The **Buckman Well Field** consists of 13 wells located near the Rio Grande, approximately 15 miles northwest of Santa Fe.

The Water Division supplied 8,062 acre-feet of water to its water utility customers and an additional 105 acre-feet to the Santa Fe County Water Utility, for a total production of 8,167 acre-feet for 2015. Also, the Water Division met its acequia irrigation deliveries and provided over 2,000 acre-feet of "Living River" flows to the Santa Fe River.

The City of Santa Fe continued its water conservation efforts which, in part, contributed to a service-area gallons per capita per day (GPCD) demand of 90.

The overall goal of the Water Division is to ensure that our water resources are managed and protected in an efficient and responsible manner to provide the Santa Fe community with clean, reliable and safe drinking water.

This report  
contains water  
data through  
December 2015  
and anticipated  
2016 data  
projections.





# WATER SUPPLY SOURCES

The City of Santa Fe has four sources of water supply (see Figure 1):

- Santa Fe River
- San Juan-Chama surface water via the Rio Grande
- City well field
- Buckman well field

Also, the Water Division utilizes reclaimed wastewater and water conservation to reduce demand on the total supply of potable water.

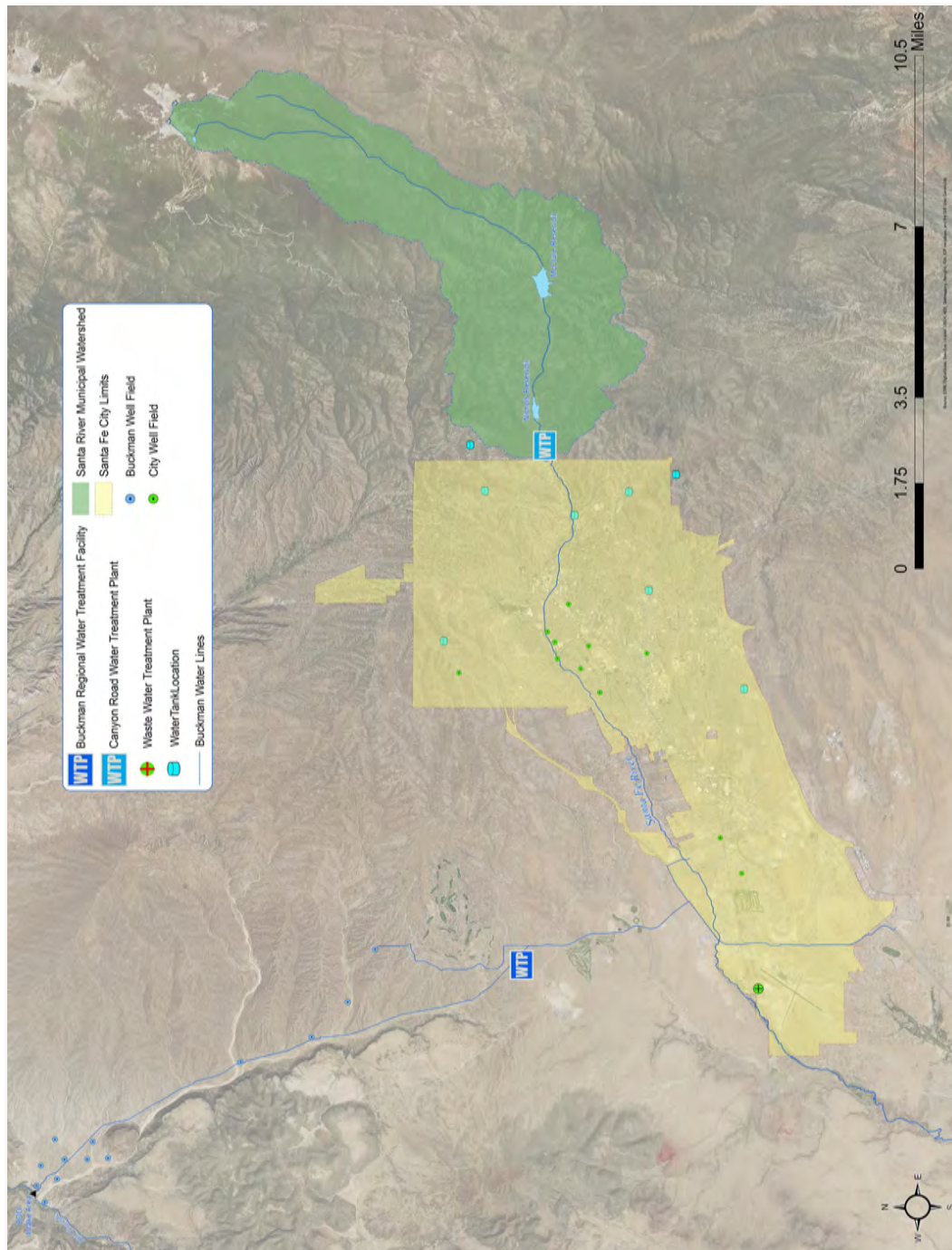


Figure 1. Map of the City of Santa Fe Water Supply Sources.

# WATER RIGHTS

## Surface Water

The City of Santa Fe has a license to store up to 3,985 acre-feet (combined) per year of Santa Fe River water in McClure and Nichols Reservoirs. Both municipal drinking water supply reservoirs are located east of the City within the closed upper Santa Fe River municipal watershed (see Figure 1). In 2015, reservoir improvements took place and were completed at McClure Reservoir (see Figure 2).

The Buckman Regional Water Treatment Plant provides drinking water from the federal Bureau of Reclamation’s San Juan-Chama Project’s surface water supply via the Rio Grande. As a contractor of the San Juan-Chama Project, the City of Santa Fe can provide up to 5,230 acre-feet per year of drinking water supply from the Buckman Regional Water Treatment Plant directly to the City’s water utility customers. The Buckman Regional Water Treatment Plant and the Buckman Direct Diversion Project facilities are governed by a joint City of Santa Fe and Santa Fe County board.

## Groundwater

The City of Santa Fe has seven active groundwater wells within the City limits, most of which are focused near the Santa Fe River (see Figure 1). Combined, the wells can produce up to 4,865 acre feet per year of drinking water supply for Santa Fe.

The City also has thirteen groundwater wells in the Buckman well field, which is located near the Rio Grande, approximately 15 miles northwest of Santa Fe (Figure 1). The Buckman Wells are associated with several water rights, but are operated under one permit that allows the City of Santa Fe a maximum pumping rate of 10,000 acre-feet per year for drinking water supply. However, the City rarely pumps more than 1,000 acre-feet annually from these wells. The newest Buckman wells are about 2,000 feet deep and began producing water in 2003.

## Water Rights Used for “Offsets”

In addition to water rights that the City of Santa Fe can directly divert for its water supply, Santa Fe maintains a portfolio of ‘offset’ surface water rights that are associated with the Buckman well field and the Northwest Well. The purpose of these acquired water rights is to keep the nearby stream systems ‘whole’ or unaffected by the impacts that pumping groundwater has on surface water.

The City of Santa Fe has acquired sufficient water rights to satisfy its current obligation on the Rio Grande, Rio Tesuque, and Rio Nambé/ Rio Pojoaque through a combination of acquired surface water rights and the City’s San Juan-Chama surface water.



Figure 2. A new intake tower was installed at McClure Reservoir in 2015. In November 2014, McClure Reservoir was drained to repair the dam and install a new intake tower, replacing the old vertical tower that was built in the 1920s. Construction was completed in December 2015, at which time the City closed valves outlets to allow for snow runoff to fill the reservoir.

| Source                   | Water Rights | Available Water                                         |
|--------------------------|--------------|---------------------------------------------------------|
| Santa Fe River           | 5,040        | Up to 5,040 plus 1,000 to living river (when available) |
| City Wells               | 3,507/4,865  | Sustainable use when needed                             |
| Buckman Wells            | 10,000       | Sustainable use when needed                             |
| Buckman Direct Diversion | 5,230*       | Less water quality and/or NEPA permit restrictions      |

Table 1. Diversion Water Rights and Supply Portfolio (acre-feet)

\*City of Santa Fe’s San Juan-Chama Project water



## Relinquishment Credits

New Mexico receives relinquishment credits when the quantity of Rio Grande water provided to Texas is above that required by the Rio Grande Compact. Relinquishment water allows the City to store relinquishment ‘credit’ water in the municipal reservoirs during times when the Rio Grande Compact would otherwise limit the City’s right to store surface water.

The New Mexico State Engineer administers relinquishment credits to the City. As an alternative to using relinquishment credits, the City often releases its San Juan-Chama Project water into the Rio Grande in exchange for the permission to store Santa Fe River water, which would otherwise be prohibited by the Rio Grande Compact. The City has a current balance of 7,207 acre-feet in relinquishment credits.

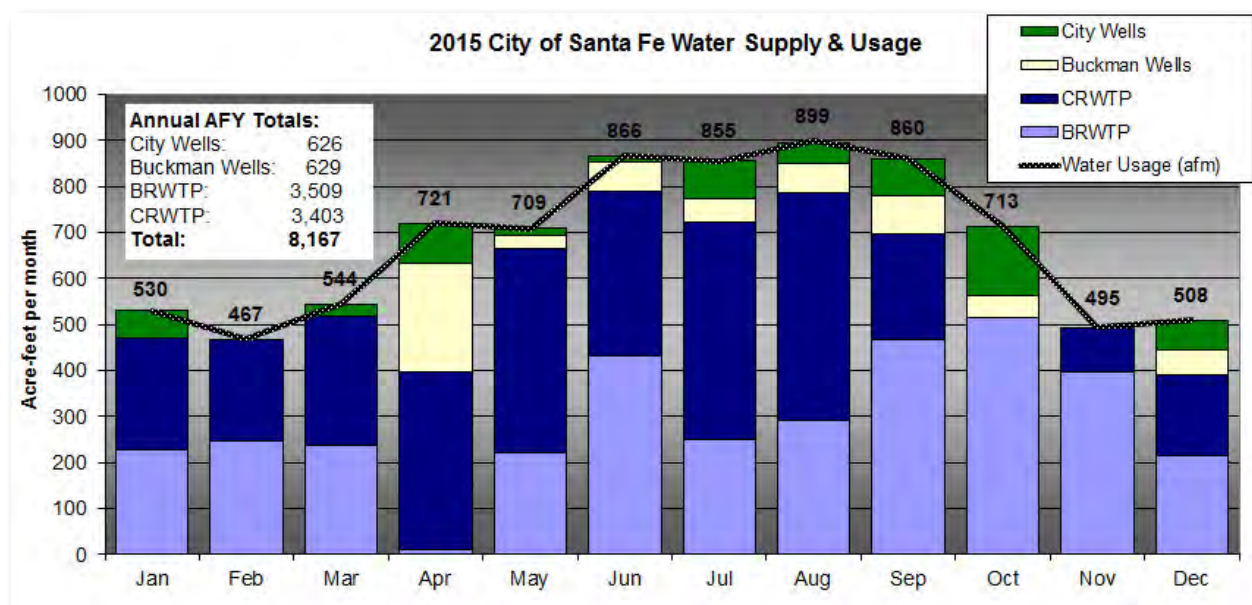


Figure 3. 2015 Actual vs. Project Monthly Production by Supply Source

## WATER PRODUCTION

### Production by Supply Source

As shown in the Production by Source graph above (Figure 3.), the City has continued to take advantage of increased availability of surface water from the Buckman Regional Water Treatment Plant to decrease use of the City and Buckman well fields, allowing the wells to rest for use in drier years when surface water is not as readily available. In 2015, production for the City of Santa Fe’s utility customers was 8,062 acre-feet, with an additional 105 acre-feet of water produced for Santa Fe County Water Utility.

### Treated Effluent Water Deliveries

The City of Santa Fe’s reclaimed wastewater (treated effluent) has many uses including irrigation to recreational fields and local golf courses; dust control at the regional landfill and for other construction projects; watering for livestock and wildlife on the Caja del Rio mesa; contributing to the



Figure 4. City of Santa Fe Wastewater Treatment Plant

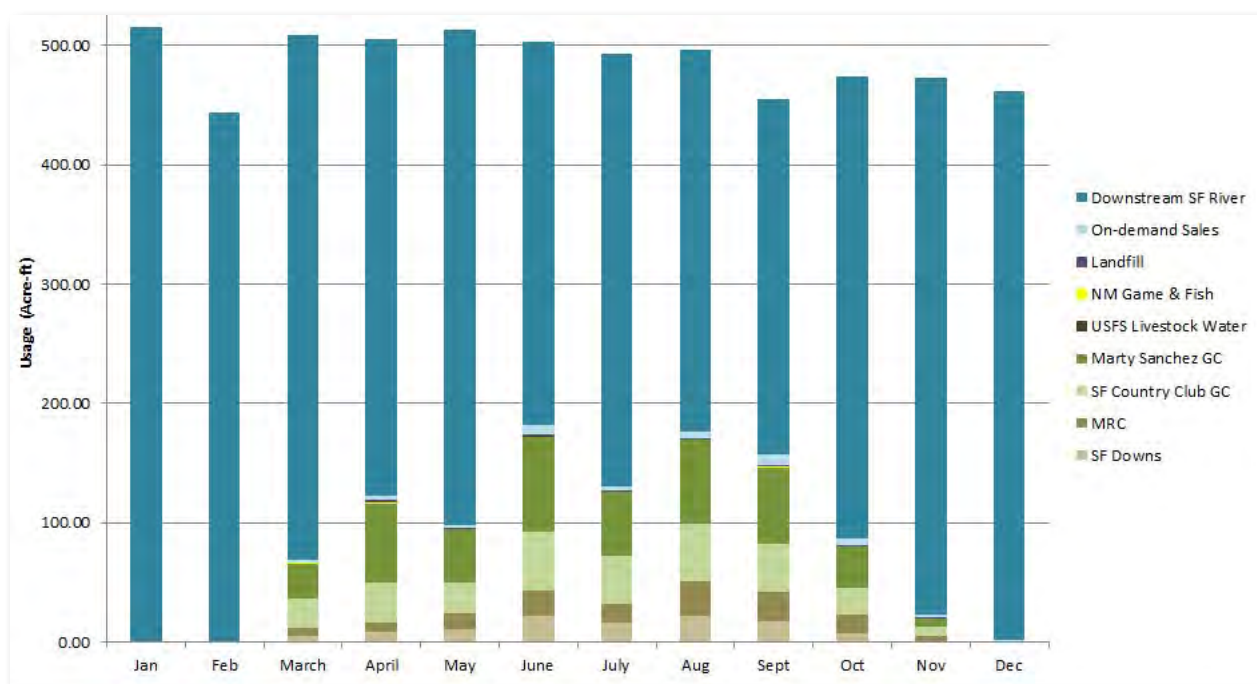


Figure 5. 2015 Treated Effluent Deliveries, by contractor

on-site, wildlife, educational pond at the NM Game & Fish facility; and enabling flow in the lower Santa Fe River downstream of the City's wastewater treatment plant which supports the riparian ecosystem and local agriculture in the La Cienega and La Bajada areas.

The reclaimed wastewater from the City's treatment plant is sold directly to contractors via an onsite stand pipe. The total production of reclaimed wastewater was 1,904 million gallons (5,844 acre-feet) in 2015, 18% of the treated wastewater was reused and the remaining 82% (1,562 million gallons) flowed into the lower Santa Fe River (see Figure 5 above).

## DROUGHT & PRECIPITATION

Drought is a normal recurrent feature in the arid southwest. Santa Fe has a very dry, high desert climate with intense sunlight. On average, the city experiences more than 300 sunny days per year. The highest temperatures in July and August are 80-90 °F with only 3-6 days per year with 90+°F highs.

Overall, Santa Fe received ample moisture in 2015. Among other factors (see Water Demand section), the precipitation likely contributed to a reduced need for outdoor watering, which accounts for approximately 40 percent of Santa Fe's total water use.

In 2015, precipitation in New Mexico was near to above normal and was ranked as the 5th wettest year on record, and the wettest since 1986. Spring 2015 snowmelt and subsequent runoff started early and was well below normal for the 5th year in a row. Well above normal

### Intensity

- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

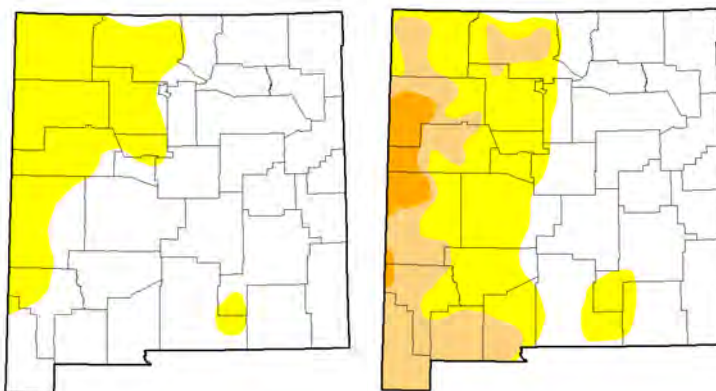


Figure 6. Drought comparisons for July 7, 2015 and December 29, 2015.

temperatures in early spring quickly receded the snowpack. But the early summer months produced scattered to numerous showers and thunderstorms and July saw the development of a strong monsoon pattern, which diminished in August and September. Moisture picked up again in October, which was 244 percent of normal. November was above normal, coming in at 121 percent. The first half of December 2015 started out dry, but by the end of the month a very active weather pattern returned to the state and the year ended with a historic blizzard event that buried much of east central and southeast New Mexico in 10 to 30 inches of snow.

According to the Western Regional Climate Center, Santa Fe receives on average 13.84 inches annually of precipitation. National Resource Conservation Service (NRCS) ‘SNOTEL’ weather stations measure accumulated precipitation. There are two SNOTEL weather stations in the upper Santa Fe River municipal watershed (see Table 2).

Precipitation data is also gathered in two additional locations in Santa Fe. ‘Santa Fe Watershed’ which is located approximately 3 miles east of the Santa Fe plaza, reported 22.82 inches for the year of 2015. This was 60 percent of the annual precipitation of 13.70 inches for this location. Seton Village (approximately 4.5 miles south of downtown Santa Fe) reported 17.22 inches for the year 2015. This was 85 percent of the annual precipitation of 14.65 inches for this location.

| SNOTEL Station | Elevation (Feet) | Accumulated Precipitation |
|----------------|------------------|---------------------------|
| Santa Fe       | 11,445           | 46.7 inches               |
| Elk Cabin      | 8,210            | 36.3 inches               |

Table 2. 2015 NRCS SNOTEL Data, Santa Fe Watershed as of June 2015.



Figure 7. Upper Santa Fe Municipal Watershed. In 2015, precipitation in New Mexico was near to above normal and was ranked as the 5<sup>th</sup> wettest year on record, and the wettest since 1986.



## WATER DEMAND

### Per Capita Consumption

A common metric for comparing annual water use and water conservation effectiveness is gallons per capita per day (gpcd). It's derived by dividing the amount of water supplied to the City of Santa Fe by the population of utility customers served. The calculated gpcd *does* include deliveries to wholesale customers, such as Santa Fe County. In 2015, the City's water customers decreased average daily water use from 95 gpcd in 2014 to 90 gpcd in 2015.

The gpcd calculation is based upon the New Mexico Office of the State Engineer's (NM OSE) methodology\*, which bases the population served upon the number of water division residential customers multiplied by 2014 American Community Survey (ACS)-derived vacancy rate, and an ACS-based residents per occupied household value. The submittal of the NM OSE gpcd fulfills a compliance requirement with the NM OSE's diversion permit for surface water to the Buckman Direct Diversion facility.

Although water conservation outreach and education programs contribute to the overall decrease in water consumption, there are several other factors to take into account. The city experienced a net loss in water customers after annexation to the county in which the typically high water use communities of La Tierra and La Campanas were transferred to Santa Fe County. Additionally, outdoor watering accounts for about 40 percent of the City's total annual water use, and as a result of ample precipitation during the monsoon season in 2015, the need for outdoor watering was reduced (see Drought & Precipitation on page 5).

\*Prior to utilizing the NM OSE gpcd methodology, the City of Santa Fe Water Division gpcd method, used for the previous seventeen years, determined the population served upon the most recent (2010) U.S. Census population data (adjusted for households that rely solely on domestic well water) and updated it annually utilizing growth rates from annual housing permits.

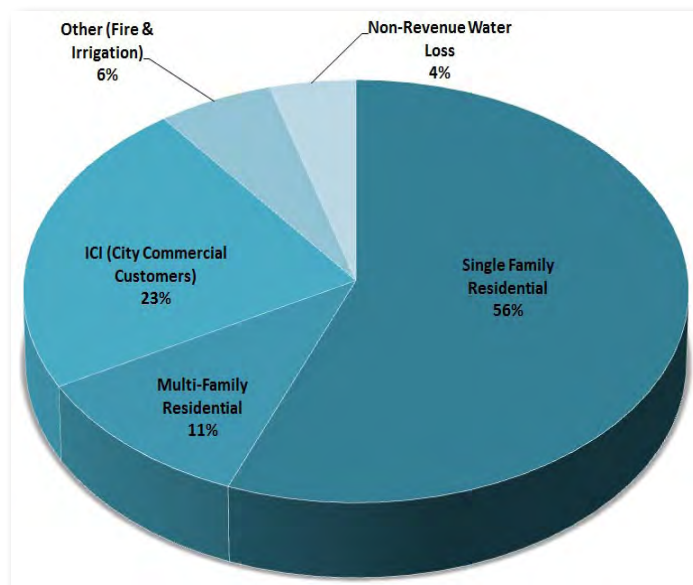


Figure 8. City of Santa Fe 2015 Gallons per Capita per Day. Demand by Sector

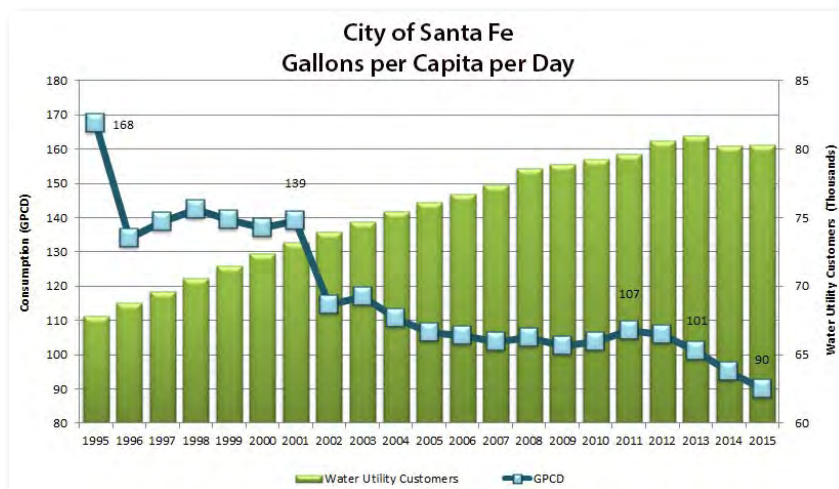


Figure 9. City of Santa Fe gpcd with population, 1995-2015

### Contractual & Other Water Demands

#### Santa Fe River

As directed by ordinance, in mid-April of each year the annual target flow allocation is determined based upon projections for the year's anticipated watershed yield. The 2015 flow target was set at 600 acre-feet based upon moisture content in the upper Santa Fe watershed snowpack, with total flows to the Living River amounting to over 2,000 acre-feet in 2015 (see the 2015-16 Santa Fe River Target Flow Hydrograph in Figure 10 on following page).

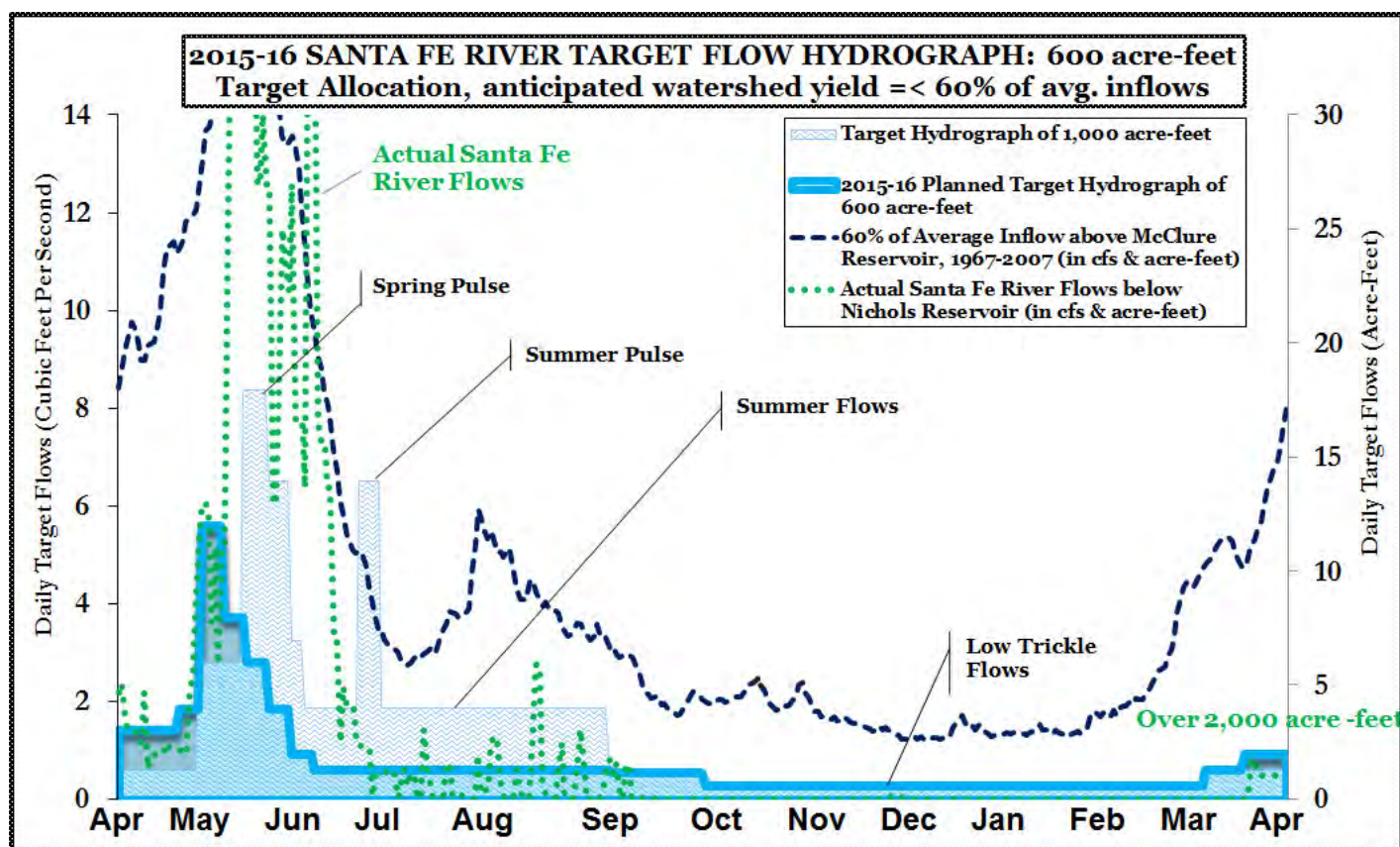


Figure 10. Santa Fe River Target Flow Hydrograph, 2015-16.

## Wholesale Water Deliveries

The City has contracts to deliver wholesale water to the Santa Fe County Water Utility. Since 2011 the Buckman Direct Diversion (BDD) has become the primary source of water for Santa Fe County's water utility. Las Campanas' potable water needs are being met by Santa Fe County's Water Utility under the terms stipulated in a bulk water agreement between Santa Fe County and Las Campanas. The 2005 City/County Water Resources Agreement provides Santa Fe County with up to 500 acre-feet per year of wholesale delivery water from the City of Santa Fe, with an additional 850 acre-feet available under drought and emergency conditions.

The Santa Fe County Water Utility typically is delivered potable water from the City of Santa Fe when the BDD facility is not producing drinking water due to poor water quality conditions in the Rio Grande. Under the water resources agreement with the City of Santa Fe, Santa Fe County Water Utility took delivery of 105 acre-feet of water in 2015.

## Water Bank

New water demand on the City water system requires a water credit from the Water Bank in an equal amount, with the goal being no "net" increase in demand on the water system. The City has a series of ordinances\* that require all new projects to offset their water demand to the City of Santa Fe Water Division supply, the options of which include water rights acquisition and water conservation in existing development. By the end of 2015, 214 acre-feet of water was available for allocation to the City's needs or City supported efforts (e.g. new parks, municipal buildings, convention centers, affordable housing dwelling units, and the Santa Fe River). An additional 77 acre-feet was available for sale to small developers. In 2015, 1.8 acre-feet was allocated to affordable housing units, leaving an ending balance of 21 acre-feet. The private developers held a total of 573 acre-feet of water rights and 185 acre-feet of toilet retrofit credits.

\*The City's water bank tracks the inflows (credits), allocations (debits), ownership, and designated use. For detailed information, please refer to the following ordinances and city code: 2005 Water Transfer Ordinance, 2009-38 Water Budget Requirements (effective January 1, 2010), and Water Conservation provisions in City Code Chapter 25.

## WATER RESOURCES PLANNING

The overall goal of water resources planning is to ensure that our water supplies are managed and protected in an efficient and responsible manner so that the City of Santa Fe's drinking water supply is safe, reliable, and sustainable. Ongoing planning necessitates the management of a suite of water rights purchasing, leasing, and permit compliance efforts.

The management role of water resources planning involves administration of the City's "water bank," which seeks to tie land use development with the availability of requisite water rights (see Water Bank section on page 8).

The other management responsibility is source water protection and watershed management under the City of Santa Fe's Municipal Watershed Management Program, protecting 40% of the City's drinking water supply. Water resources planning and management efforts cover a broad range of duties, including being a good steward of the precious and finite resource: water.

### Fiscal Responsibility

The Water Division is committed to managing the water utility to maintain fiscal responsibility to its customers. This is achieved by an annual review of the finance plan and the capital improvement plan (CIP) with the goal of maintaining a high level of service while increasing effectiveness and efficiency. In early 2009, the City Governing Body approved a water rate increase in the amount of 8.2% for five consecutive years. The water utility rate increase was needed to pay for the Buckman Direct Diversion Project, a key component in providing the community with a safe and reliable supply of drinking water, and approximately \$100 million of infrastructure improvements. The last rate increase went into effect July 1, 2013 and the City does not project another increase to take place until 2021.

### 2016 Water Demand and Supply Picture

In the chart below, the 2016 projected demand (black line) is approximately 9,547 acre-feet over the 12 month period. The BDD annual production is projected to be 4,576 acre-feet, Canyon Road Water Treatment Plant is projected to produce 3,200 acre-feet, the City Wells are projected to produce 1,133 acre-feet, and Buckman Wells are projected to produce 638 acre-feet over the 12 month period.

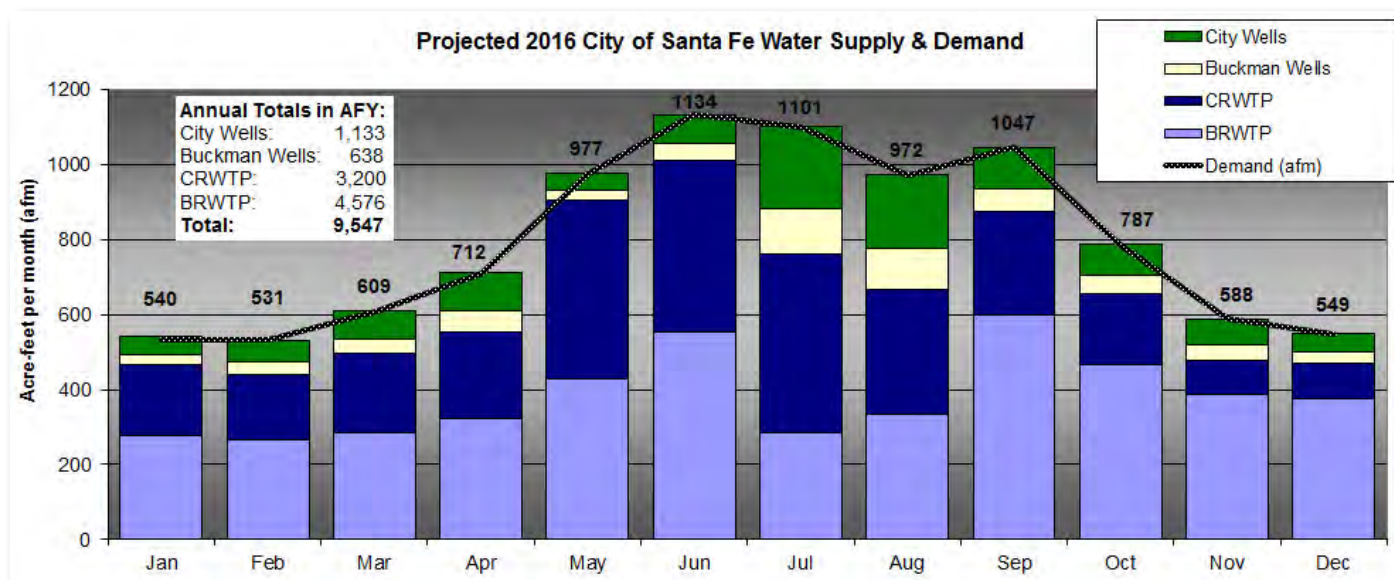


Figure 11. 2016 Projected Monthly Production by Supply Source





**City of Santa Fe, Water Division  
Water Production Update  
Public Utilities Commission Meeting  
May 4, 2016**

**Filter Plant Demolition**

Asbestos abatement and building demolition of the old Canyon Road Filter Plant (near corner of Cerro Gordo and Upper Canyon Road) has been completed. A pressure reducing valve will be installed at the site of the old PNM substation. Work was due to be completed by the end of April but may extend into May because of delays caused early on by inclement weather. The site will be contoured and reseeded for possible future use by the City, as part of the Dale Ball Trails network.

**Water Production for March (through 04/19/2016)**

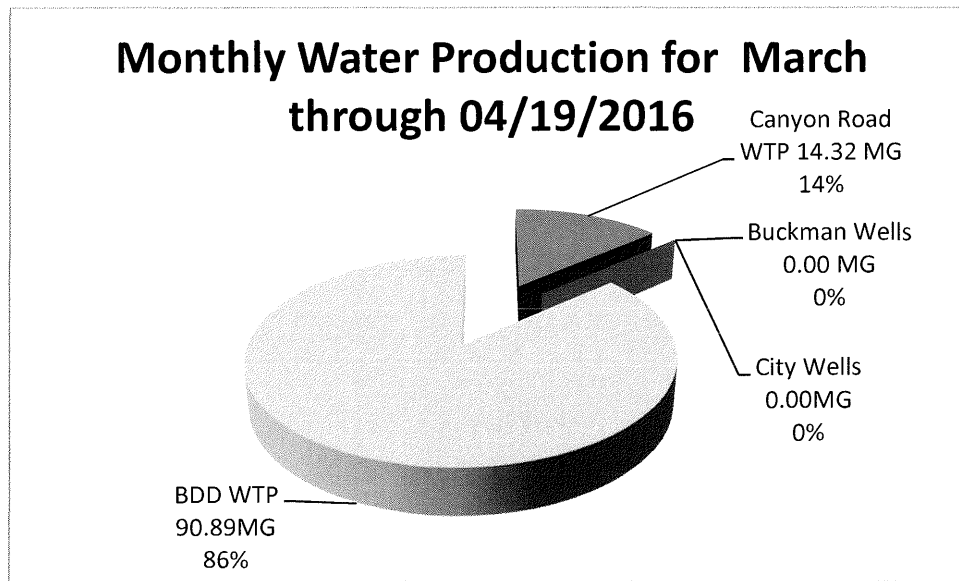
Water production at the Canyon Road Treatment Plant (CRWTP) decreased from February production levels, and totaled 14.32 million gallons (MG) for the first 14 days of April and completely shut down for maintenance on the morning of April 15th. This represents a daily average of 1.02 million gallons per day (MGD) for that facility. CRWTP production levels have been scaled back to further accommodate the filling of McClure and increased production by BDD. City Wells were not used during the month of March, except for .022 MG used to increase distribution line pressures on a few occasions when needed. The Buckman Wells were not utilized for production in April.

BDD's total production of 117.44 MG was split between Entry Point 04A at 90.9 MG, and Entry Point 05A at 26.55 MG. Total Production for the month of March from all City water sources, through April 19<sup>th</sup> was 131.75 MG. This represents an average of approximately 6.934 MGD and an increase of approximately 0.48 MGD over the daily demand (6.45 MGD) for the month of March.

Nichols Reservoir storage levels were at 128.07 (354 ac. ft.), or a 59.42% storage level on April 19th. Flows out of the reservoir were increased to accommodate a slight increase in Living River flows and early calls for irrigation water on April 3rd. The storage level of McClure Reservoir was increased to 507.16 MG by April 19th, or approximately 46.54% of capacity. The level of this reservoir has been increasing at approximately 1.0 % of capacity every 2-3 days in late April at current inflow levels of reaching 6.7 MGD on this date and ranging between 2.5 MGD and 6.7 MGD for the month.. Outflow from McClure was kept to approximately 1.0 MGD or 1.55 cubic feet per second (cfs). The City is still filling McClure in conformance with the Office of State Engineer (OSE) guideline of less than one foot in surface elevation per day.

*(Note: On Friday- April 22<sup>nd</sup> the City of Santa Fe was notified by the Interstate Stream Commission you that using accounting method-2, Usable water in Rio Grande Project storage dropped below 400,000 acre-feet. As a result, the Rio Grande Compact native water storage restriction on reservoirs in the Rio Grande Basin constructed after 1929, including El Vado Reservoir, all Corps reservoirs, and a portion of the storage in Nichols and McClure reservoirs, went into effect as of April 22<sup>nd</sup>, 2016. The City had anticipated this return to Article 7 restriction(s) under the Rio Grande Compact based on information provided earlier by the ISC. The City will meet the Article 7 restrictions by only storing an additional pre-Compact pool volume of 1031 acre feet (345,728,364 MG) in Nichols and McClure while under Article 7. The City is also considering alternatives for additional storage above the 1061 pre-compact pool.)*

Snow depth in the upper watershed had increased 11.0 inches from a late March level of 44.0 inches to 55.0 inches on April 20<sup>th</sup>. Snow-water equivalent (SWE) for the Santa Fe SNOTEL Station (elevation: 11,445 ft.) is currently 19.2 inches as compared to the 30 yr. median value of 18.5 inch (104% of median). This is also a 2.0 inch increase in SWE than the 17.2 inches reported to the PUC for March. (\* Median for this station is calculated from values obtained during the 30-yr period of 1981-2010)



### **Consumer Confidence Reports (Calendar Year 2015 results)**

The Source of Supply Section has completed a draft for printing and dissemination to all City of Santa Fe Water System customers and Santa Fe citizens. A copy of that draft has been attached for the PUC's information. Final dissemination of CCRs to all City of Santa Fe Water System customers is required under the Safe Drinking Water Act by July 1, 2016. It is our goal to disseminate reports in customer bills starting with a billing cycle starting in early to mid-May.

Once again, the City of Santa Fe Water System is in full compliance with all SDWA drinking water standards, as well as all required monitoring, analytical and reporting requirements. The City of Santa Fe met all of the Action Levels prescribed by the federal Lead (0.015 mg/l) and Copper Rule for all samples taken in 2015. Although the LCR requires that only the 90<sup>th</sup> percentile of public water supply system's samples meet the action levels for lead (0.015 mg/l) and copper (1.3 mg/l), all of the City's 30 samples met the action level. Recent stories about facilities in Santa Fe with lead problems can most likely be attributed to the fact that these facilities have their own supply of water that is used exclusively, or mixed with City water. Following the adoption of the 1991 LCR, the City of Santa Fe evaluated and strengthened its treatment of water supplies for corrosion control, and took action to replace lead and copper pipelines and distribution system components to the maximum extent possible.

### **Baca Street Well**

The Source of Supply Section and Environmental Compliance Office received an update from the New Mexico Environment Department. A work plan for future investigation of the site was submitted by

PNM's contractor during the second week of April for investigation of contamination at the site and is currently under review by a project office in the NMED Petroleum Storage Tank Bureau (PSTB). The City's Source of Supply Section has requested a copy of this proposed investigation work plan and reminded the NMED-PSTB and PNM of the commitments made during negotiation of the current Memorandum of Understanding (MOU) covering the site to involve the City and solicit its comments and concerns with respect to all stages of site investigation and remediation.

### **Drought, Monsoon/El Nino, and ESA Update**

Drought conditions have eased this past year due to the reappearance of a strong El Nino, although the February/March time period for this year was the driest on record. NOAA's latest update (04/25/16) indicates that El Nino conditions are present, but weakening **with increasing likelihood for La Nina conditions to develop by the fall (hot/dry) conditions**. Dry conditions in 2016 could present significant challenges to all water purveyors, water utilities, and irrigators going forward into the summer/fall if there is not significant filling and carry-over storage in regional reservoirs. Regional reservoir levels on the upper Santa Fe River, Rio Grande, and Chama Rivers are still low but rising slowly due to warmer temperatures and resultant snowmelt runoff. There are no water-related Endangered Species Act (ESA) updates. Updates on ESA issues will be made as needed. Rio Grande Compact Article VII storage restrictions went back into effect 4/22/16, which means the City will not be allowed to impound "native" runoff into Nichols and McClure Reservoirs above the pre-Compact pool of 1,061 AF. Updates to this condition will be made as needed.

City of Santa Fe SJCP Reservoir Storage as of February 16, 2016:

Heron:

5,196 AF (2015 SJCP water must be vacated by September 31, 2016 pursuant to a BoR waiver).

El Vado:

0 AF (Temporary storage, will be moved to Abiquiu as part of environmental winter/spring flow releases)

Abiquiu:

10,163 AF SJCP carry-over from previous years, no time limit to vacate due to storage agreement with ABCWUA

TOTAL:

15,359 AF



## City of Santa Fe 2014 Water Quality Table Regulated Compliance Monitoring

| Contaminant                                              | Units | MCL                  | MCLG | City Well Field <sup>1</sup> | Sample Date | Buckman Tank <sup>2</sup> | Sample Date | Canyon Road WTP    | Sample Date | Buckman RWTP      | Sample Date | Violation | Typical Source                                                                                                            |
|----------------------------------------------------------|-------|----------------------|------|------------------------------|-------------|---------------------------|-------------|--------------------|-------------|-------------------|-------------|-----------|---------------------------------------------------------------------------------------------------------------------------|
| <b>Organic Contaminants</b>                              |       |                      |      |                              |             |                           |             |                    |             |                   |             |           |                                                                                                                           |
| 1,1,1-Trichloroethane                                    | ppb   | 200                  | 200  | 0.1<br>(ND - 0.1)            | 2014        | ND                        | 2014        | ND                 | 2014        | ND                | 2014        | No        | Discharge from metal degreasing sites and other factories                                                                 |
| 1,1-Dichloroethylene                                     | ppb   | 7                    | 7    | 0.21<br>(ND - 0.21)          | 2014        | ND                        | 2014        | ND                 | 2014        | ND                | 2014        | No        | Discharge from industrial chemical factories                                                                              |
| 1,2-Dichloroethane                                       | ppb   | 5                    | zero | 0.20<br>(ND - 0.20)          | 2014        | ND                        | 2014        | ND                 | 2014        | ND                | 2014        | No        | Discharge from industrial chemical factories                                                                              |
| Tetrachloroethylene                                      | ppb   | 5                    | zero | 0.28<br>(ND - 0.28)          | 2014        | ND                        | 2014        | ND                 | 2014        | ND                | 2014        | No        | Discharge from factories and dry cleaners                                                                                 |
| <b>Synthetic Organic Contaminants</b>                    |       |                      |      |                              |             |                           |             |                    |             |                   |             |           |                                                                                                                           |
| Ethylene Dibromide                                       | ppb   | 0.05                 | zero | 0.007<br>(ND - 0.007)        | 2014        | ND                        | 2014        | ND                 | 2014        | ND                | 2014        | No        | Discharge from petroleum refineries                                                                                       |
| <b>Inorganic Contaminants</b>                            |       |                      |      |                              |             |                           |             |                    |             |                   |             |           |                                                                                                                           |
| Arsenic                                                  | ppb   | 10                   | 0    | 4.0<br>(1.0 - 4.0)           | 2014        | 2                         | 2014        | ND                 | 2014        | ND                | 2015        | No        | Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes                    |
| Barium                                                   | ppm   | 2                    | 2    | 0.8<br>(0.1 - 0.8)           | 2014        | ND                        | 2014        | ND                 | 2014        | ND                | 2015        | No        | Discharge from drilling wastes; Discharge from metal refineries; Erosion of natural deposits                              |
| Bromate                                                  | ppb   | 10                   | zero | NA                           | NA          | NA                        | NA          | NA                 | NA          | 7.3<br>(ND - 7.3) | 2015        | No        | Byproduct of drinking water disinfection                                                                                  |
| Chromium                                                 | ppb   | 100                  | 100  | 1<br>(ND - 1)                | 2014        | ND                        | 2014        | ND                 | 2015        | ND                | 2015        | No        | Discharge from steel and pulp mills; erosion of natural deposits                                                          |
| Fluoride                                                 | ppm   | 4                    | 4    | 0.16<br>(0.14 - 0.16)        | 2014        | 0.4                       | 2014        | 0.11               | 2015        | 0.37              | 2015        | No        | Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories |
| Nitrate [as N]                                           | ppm   | 10                   | 10   | 8.65<br>(3.03 - 8.65)        | 2015        | 0.18                      | 2015        | 0.12               | 2015        | 0.19              | 2015        | No        | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion from natural deposits                             |
| <b>Radioactive Contaminants</b>                          |       |                      |      |                              |             |                           |             |                    |             |                   |             |           |                                                                                                                           |
| Gross Alpha Emitters                                     | pCi/L | 15                   | 0    | 4.4<br>(1.9 - 4.4)           | 2014        | 4.2                       | 2014        | ND                 | 2014        | 1.2               | 2014        | No        | Erosion of natural deposits                                                                                               |
| Gross Beta/Photon Emitters                               | pCi/L | 50 <sup>3</sup>      | NA   | 1.5<br>(ND - 1.5)            | 2014        | 2.3                       | 2014        | 1.4                | 2014        | 2.3               | 2014        | No        | Decay of natural and man-made deposits.                                                                                   |
| Radium 226/228                                           | pCi/L | 5                    | 0    | 0.77<br>(0.10 - 0.77)        | 2014        | 0.07                      | 2014        | 0.18               | 2014        | 0.1               | 2014        | No        | Erosion of natural deposits                                                                                               |
| Uranium                                                  | ppb   | 30                   | 0    | 2.0<br>(ND - 2.0)            | 2014        | 2.0                       | 2014        | ND                 | 2014        | 1                 | 2014        | No        | Erosion of natural deposits;                                                                                              |
| <b>Surface Water Contaminants</b>                        |       |                      |      |                              |             |                           |             |                    |             |                   |             |           |                                                                                                                           |
| Turbidity <sup>4</sup> (highest single measurement)      | NTU   | TT = 1.0             | 0    | NA                           | NA          | NA                        | NA          | 0.33               | 2015        | 0.18              | 2015        | No        | Soil Runoff                                                                                                               |
| Turbidity <sup>4</sup> (lowest monthly % meeting limits) | NTU   | TT = % <0.3 NTU      | 0    | NA                           | NA          | NA                        | NA          | 100.0%             | 2015        | 100.0%            | 2015        | No        | Soil Runoff                                                                                                               |
| Total Organic Carbon (TOC)                               | NA    | TT (25%-45% Removal) | NA   | NA                           | NA          | NA                        | NA          | 53% to 84% removal | 2015        | NA                | NA          | No        | Naturally present in the environment                                                                                      |

### Note:

- EPA considers 50 pCi/L to be the level of concern for beta particles.
- Alternative compliance criteria used to meet TOC removal requirements
- Turbidity is a measure of the cloudiness of water. We monitor it because it is a good indicator of the effectiveness of our filtration system.
- City wellfield: Alto, Agua Fria, Ferguson, Osage, Santa Fe, St. Mikes & Torreon.
- Buckman Wells 1-13 and Northwest Well.

### Key to Units, Terms and Abbreviations

NA: Not Applicable.

ND: Not Detected.

NTU: Nephelometric Turbidity Units.

ppm: parts per million, or milligrams per liter (mg/L).

ppb: parts per billion, or micrograms per liter (µg/L).

pCi/L: picocuries per liter (a measure of radioactivity).

µg/L: Number of micrograms of substance per liter of water.

mg/L: Number of milligrams of substance per liter of water.

µmhos/cm: Micromhos per centimeter or µS/cm (microsiemens per centimeter) – a measure of electrical conductivity in water due to the presence of dissolved inorganic ions (e.g., calcium, chloride, sodium, etc.).

Pt-Co units: Platinum-Cobalt color units – a measure of color also called the “Hazen Scale” or “APHA color”, as defined in ASTM International Standard D1209

(Range): The range represents the highest and low values. Range values are not provided if only one sample was taken during the range period.

AL: Action level: The concentration of a contaminant, which, if exceeded, triggers treatment or other requirements, which a water system must follow.

LRAA: Locational running annual average – the average of analytical results for samples at a particular monitoring location during the previous four calendar quarters. LRAA at each sampling location must be below the MCL (0.060 mg/L for Total Haloacetic Acids and 0.080 mg/L for Total Trihalomethanes)

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. MCL's are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

Maximum Residual Disinfectant Level (MRDL) – The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG) – The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Secondary MCL (SMCL): Non-mandatory water quality standards for certain contaminants established as guidelines to assist public water systems in managing their drinking water for aesthetic considerations, such as taste, color and odor. These contaminants are not considered to present a risk to human health at the SMCL.

TT: Treatment Technique: a required process intended to reduce the level of a contaminant in drinking water.



## 2015 Water Quality Report

City of Santa Fe Water Division P.O. Box 909, Santa Fe, NM 87504

Customer Service (505) 955-4333 Administration (505) 955-4210

The City of Santa Fe's Water Division (the City) is pleased to provide the 2015 Water Quality Report. A safe and dependable water supply is vital to our community and is the primary mission of the City. This report is provided annually and contains information on the quality of water obtained throughout the calendar year. In 2015, the City's drinking water met all U.S. Environmental Protection Agency (EPA) and State drinking water quality limits. The report contains additional details about where your water comes from, what it contains, and how it compares to standards set by federal and state regulatory agencies. It also provides educational information on contaminants which may be a concern.

### Sources of Supply

The City was served by four distinct sources of supply in 2015. The 17,000 acre Santa Fe Watershed provides surface runoff to the Santa Fe River where it is stored in the McClure and Nichols Reservoir prior to treatment. Surface water from the Santa Fe River and Rio Grande is treated through conventional and advanced treatment processes at the Canyon Road Water Treatment Plant and Buckman Regional Water Treatment Plant (BRWTP), respectively. The City Well Field is mostly located in close proximity to the Santa Fe River and consists of 8 active wells located within the City limits of Santa Fe. The Buckman Well Field consists of 13 wells located near the Rio Grande, approximately 15 miles northwest of Santa Fe. All four sources are treated with chlorine for protection of customers against disease-causing microorganisms (pathogens), including bacteria and viruses. **Fluoride is added to the water supply to benefit the community as recommended by public health professionals.**

In 2011, the Buckman Direct Diversion (BDD) Project surface water supply was successfully integrated into the municipal distribution system and operated in conjunction with the City's pre-existing sources of supply throughout 2015. The surface water treated at the BRWTP is taken directly from the Rio Grande. BDD not only improves sustainability for the area but also increases the City's resilience under drought conditions, replacing current groundwater pumping that cannot be sustained, and making the City's wells available as drought and emergency reserves rather than sources used to meet daily water demands.

### Do I need to take special precautions?

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These individuals should seek advice about the safety of their drinking water supply from their health care providers. EPA/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

### Map of Water Sources



### Source Water Assessment and its Availability

The New Mexico Environment Department (NMED) completed a Source Water Assessment for the City of Santa Fe. This assessment includes a determination of source water protection areas and an inventory of pollution sources within the areas of concern. NMED concluded: “The Susceptibility Analysis of the City of Santa Fe water utility reveals that the utility is well maintained and operated, and the sources of drinking water are generally protected from potential sources of contamination based on an evaluation of the available information. The susceptibility rank of the entire water system is “moderately low”. A copy of the Assessment is available by contacting NMED at 505-476-8620.

City ordinances adopted in 2005 built upon the recommendations in the Source Water Assessment. The “Safe Drinking Water and Source Water Protection” and the “Stormwater Illicit Discharge Control” ordinances provide additional controls and protections for the City's ground and surface water supplies. In addition, the City established a Stormwater Program with the goal of reducing pollutant discharged to the Santa Fe River. Please contact 955-2134 to report illegal dumping in storm drains, streets and arroyos.

### En Español

Este reporte contiene información importante sobre la calidad del agua en Santa Fe. Si tiene alguna pregunta o duda sobre este reporte puede hablarle a Victor Archuleta al teléfono 505-955-4370.



Why are there Contaminants in my Drinking Water?

Sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Contaminants in drinking water may include:



**Microbial contaminants**, such as viruses and bacteria that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

**Inorganic contaminants**, such as salts and metals can be naturally-occurring or result from urban storm-water runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.

**Pesticides and herbicides**, may come from a variety of sources, such as agriculture, urban storm-water runoff, and residential uses.

**Organic chemical contaminants**, including synthetic and volatile organic chemicals, are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.

**Radioactive contaminants**, which can be naturally occurring, man-made from nuclear facilities and atmospheric deposition from former above ground testing, or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

Nitrates

City of Santa Fe drinking water meets the federal drinking water standard of 10 ppm for nitrates (10 mg/L as N). Nitrates have been detected in some of the City Wells up to 6.7 ppm. Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant you should ask advice from your health care provider.



Arsenic

The drinking water standard for arsenic is 10 µg/L. The City's drinking water continued to meet this standard throughout 2015. Arsenic occurs naturally in the earth's crust. When these arsenic-containing rocks, minerals, and soil erode, they release arsenic into ground water. While our drinking water meets EPA's standard for arsenic, it does contain low levels of arsenic. The EPA standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. EPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

In cooperation with Los Alamos National Laboratory (LANL) and the New Mexico Environment Department, the City currently monitors Buckman Wells 1, 6 and 8 for LANL derived contamination on a quarterly basis. Samples are analyzed for radionuclides, general inorganic chemicals, metals, high explosives and organics. This repeat sampling has occurred during the years 2001 – 2015 and has indicated that Laboratory-derived radionuclides are not present in the Buckman Wells 1, 2, 6 and 8. The results do indicate detectable levels of radionuclides associated with natural sources. These wells are part of the 13 wells that make-up the Buckman Wellfield. When these wells are used, water from these wells is delivered to the Buckman Tank prior to distribution into the system.

Cryptosporidium

Cryptosporidium is a protozoan parasite that is common in surface waters. The oocyst is the transmission stage of the organism. Cryptosporidium is introduced into our source waters via wild animal populations. Although the organism is readily removed by the conventional treatment process utilized at the Canyon Road Water Treatment facility, the oocyst is resistant to chemical disinfectants like chlorine and the primary reason to determine if additional treatment is required. Ingestion of Cryptosporidium may cause cryptosporidiosis, an abdominal infection.

In April 2007 the City began a two-year study to determine the average Cryptosporidium concentration in source water entering the Canyon Road Water Treatment facility. The sampling portion of the study was completed in March of 2009. The study is part of the requirements contained in the 2006 USEPA Long-Term Enhanced Surface Water Treatment Rule. Cryptosporidium was detected in a single untreated sample in each of the following months: December of 2007, September 2008 and October 2008. The highest 12-month consecutive mean for this study was 0.018 oocysts/L. Since the concentration is <0.075 oocysts/L, no additional treatment at the Canyon Road Water Treatment Facility was necessary. The City began a second round of sampling, one sample a month, starting in October 2015 and scheduled to end in September 2017. No Cryptosporidium oocysts were detected in three samples collected in calendar year 2015 (October, November, and December). As with Cryptosporidium oocysts, no Giardia Lamblia cysts were detected in the three samples collected during the last three months of 2015.

Any new water system treating surface water such as BDD is required to monitor Cryptosporidium for 24 consecutive months. At the BDD the untreated raw Rio Grande water Cryptosporidium test results range from 0 to 0.4 oocysts/L.



Voluntary Monitoring

The attached "Voluntary Monitoring" Table lists results from voluntary monitoring at entry points into the distribution system associated with BRWTP, City Wells, and the Canyon Road WTP. Since these samples are collected at the point of entry of water into the City's distribution system, the reported concentrations of contaminants may be further diluted in the distribution system through mixing with water from other City sources.

EPA has established secondary maximum contaminant levels (SMCL) for certain contaminants. Secondary Standards are non-enforceable standards that serve as guidelines to assist public water systems in managing their drinking water. The presence of these contaminants typically results from the erosion of natural deposits. Aluminum and manganese containing materials are used as treatment aids in the water treatment process. Other constituents without SMCLs were monitored in 2015 and are reported in the "Voluntary Monitoring" Table (these have an "NA" in SMCL column).

| VOLUNTARY MONITORING   |          |           |        |             |
|------------------------|----------|-----------|--------|-------------|
| Contaminant            | Units    | SMCL      | Result | Sample Date |
| Buckman RWTP           |          |           |        |             |
| Chloride               | ppm      | 250       | 20     | 2015        |
| pH                     |          | 6.5 - 8.5 | 8.33   | 2015        |
| Sulfate                | ppm      | 250       | 48     | 2015        |
| Total Dissolved Solids | ppm      | 500       | 223    | 2015        |
| Strontium-90           | pCi/L    |           | 0.01   | 2015        |
| Nickel                 | ppm      | 10        | ND     | 2015        |
| Tritium                | pCi/L    |           | ND     | 2015        |
| Uranium-234            | pCi/L    |           | 0.949  | 2015        |
| Uranium-235/236        | pCi/L    |           | 0.447  | 2015        |
| Uranium-238            | pCi/L    |           | 0.676  | 2015        |
| Conductivity           | µmhos/cm |           | 340    | 2015        |
| Total Haloacetic acids | ppm      |           | 0.0094 | 2015        |
| Total Trihalomethanes  | ppm      |           | 0.0209 | 2015        |
| Chlorine (as Cl2)      | ppm      |           | 0.75   | 2015        |
| Sodium                 | ppm      |           | 24     | 2015        |
| Canyon Road WTP        |          |           |        |             |
| Sodium                 | ppm      |           | 18     | 2015        |

Contacts for Additional Information:

If you have any questions, comments, or suggestions regarding this report please contact Alex Puglisi at 505-955-4232 or write to: City of Santa Fe Water Division P.O. Box 909, Santa Fe, NM 87504

Microbial and Disinfection Byproducts Rule

The Microbial and Disinfection Byproducts (M/DBP) Rules are a set of interrelated regulations that address risks from microbial pathogens and disinfectants/ disinfection byproducts (DBPs). The Stage 2 Disinfectants and Disinfection By-Products Rule (DBPR) focuses on public health protection by limiting exposure to DBPs (known carcinogens), specifically total trihalomethanes (TTHM) and five haloacetic acids (HAA5), which can form in water through disinfectants used to control microbial pathogens.

The City of Santa Fe system has eight compliance sampling locations for TTHM and HAA5. Each location is sampled once per quarter. The average of analytical results for DBPs at a given location during the previous four quarterly samples is called the locational running annual average (LRAA). The LRAA at each location must be below the MCL (0.060 mg/L for HAA5 and 0.080 mg/L for TTHM). Results shown in the Table below indicate that the individual quarterly values during 2015 ranged from 0.001 to 0.027 mg/L for HAA5 and 0.029 to 0.069 mg/L for TTHM. The highest LRAA was 0.0101 mg/L for HAA5 and 0.0245 mg/L for TTHM, indicating that the system is in compliance.

| Contaminant                   | MCL   | MCLG | Year | Sample Highest |        | Range 2015 | Typical Source                            |
|-------------------------------|-------|------|------|----------------|--------|------------|-------------------------------------------|
|                               |       |      |      | Low            | High   |            |                                           |
| Haloacetic Acids (HAA5)       | 0.060 | NA   | 2015 | 0.0101         | 0.0013 | 0.0270     | By-product of drinking water chlorination |
| Total Trihalomethanes (TTHMs) | 0.080 | NA   | 2015 | 0.0245         | 0.0289 | 0.0690     | By-product of drinking water chlorination |

† = units are ppm (mg/L) † = individual samples at all locations

The Stage 2 DBPR also regulates the maximum residual for disinfectants: chlorine dioxide, free chlorine, and chloramines. The disinfectants are water additives used to control microorganisms, particularly as a residual disinfectant in distribution system pipes.

The City of Santa Fe water system uses free chlorine as a disinfectant. For the year 2015, sampling was performed at 80 monitoring locations each month. The results are summarized in the table below:

| Contaminant       | MCL | MCLG | Year | Sample Highest |      | Range 2015 | Typical Source |
|-------------------|-----|------|------|----------------|------|------------|----------------|
|                   |     |      |      | Low            | High |            |                |
| Chlorine Residual | 4.0 | 4    | 2015 | 1.19           | 0.00 | 1.19       | No             |

Asbestos

The most recent sample for asbestos in the distribution system was collected on December 16, 2013. No asbestos fibers were detected in the sample collected (detection limit 0.2 million fibers per liter or MFL). Some people who drink water containing asbestos in excess of the MCL over many years may have an increased risk of developing benign intestinal polyps.

| Contaminant | MCLG | MCL | Result    | Year | Violation | Typical Source                                                       |
|-------------|------|-----|-----------|------|-----------|----------------------------------------------------------------------|
|             |      |     |           |      |           |                                                                      |
| Asbestos    | 7    | 7   | ND (<0.2) | 2013 | No        | Decay of asbestos cement in water mains; erosion of natural deposits |

units are MFL (million fibers per liter) for fibers > 10um

Lead and Copper Rule

Tests for lead and copper are taken from customer taps located throughout the City once every three years. The most recent round of lead and copper testing took place in August 2015. The next survey will be performed in 2018. If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing.

| Contaminant  | MCLG | AL   | Cov Water Levels (90th Percentile) | # of Sample | Sample Date | Exceeds AL | Typical Source                                                                                         |
|--------------|------|------|------------------------------------|-------------|-------------|------------|--------------------------------------------------------------------------------------------------------|
|              |      |      |                                    |             |             |            |                                                                                                        |
| Copper (ppm) | 1.3  | 1.3  | 0.40                               | 20 of 20    | August 2015 | No         | Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems |
| Lead (ppb)   | 0    | .015 | 0.0022                             | 20 of 20    | August 2015 | No         | Corrosion of household plumbing systems; Erosion of natural deposits                                   |

\* Results of monitoring are used to determine the concentration at the 90th percentile (e.g., if 100 samples analyzed, the concentration at the 90th highest sample). Based on the number of samples analyzed in 2015 the 90th percentile is the 27th sample for copper and lead.

\*\* AL = Action Level

Unregulated Contaminant Monitoring Rule (UCMR)

EPA uses the Unregulated Contaminant Monitoring Rule (UCMR) to collect data for contaminants that are suspected to be present in drinking water and do not have health-based standards set under the Safe Drinking Water Act (SDWA). Unregulated contaminant monitoring helps EPA to determine where certain contaminants occur and whether the Agency should consider regulating those contaminants in the future. UCMR sampling for the EPA required four quarterly periods was completed in the Santa Fe water system between March and December 2015.

| UNREGULATED CONTAMINANT MONITORING |      |                 |       |       |
|------------------------------------|------|-----------------|-------|-------|
| NAME                               | UNIT | REPORTED LEVELS | RANGE |       |
|                                    |      |                 | LOW   | HIGH  |
| 1,4-Dioxane                        | ppb  | 0.080           | 0.078 | 0.082 |
| Chlorate                           | ppb  | 127             | 23    | 380   |
| Chromium                           | ppb  | 0.75            | 0.22  | 2.0   |
| Hexavalent Chromium (Dissolved)    | ppb  | 0.46            | 0.03  | 1.9   |
| Molybdenum                         | ppb  | 3.7             | 2.1   | 5.3   |
| Strontium                          | ppb  | 166             | 35    | 430   |
| Vanadium                           | ppb  | 2.2             | 0.2   | 9.2   |

\* Average of all of 2015 UCMR results

The average of all of the monitoring results and the range of detections for any detected unregulated contaminants for which state or federal rules require monitoring are presented in the table. Other contaminants were collected and analyzed, as required by EPA, but they were not found above detection limits in any City of Santa Fe samples, and therefore are not included in the above table.

Conserve Water... every drop counts

2015  
City of Santa Fe  
Water Quality Table

The table on the following page lists contaminants which:

1. have associated primary Maximum Contaminant Levels (MCLs) that are regulated and
2. were detected in testing conducted by the City and New Mexico Environment Department.

The table includes only those constituents found above detection limits during 2015 sampling, or during sampling in previous years if not analyzed during 2015. The EPA requires monitoring for certain contaminants less than once per year because the concentrations are not expected to vary significantly from year to year. The City is required to test for over 80 contaminants, and the vast majority of these contaminants were not found above detection limits Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of these contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's (EPA) Safe Drinking Water Hotline (800) 426-4791, or visiting [www.epa.gov/safewater](http://www.epa.gov/safewater).

Please view separate 2015 Water Quality Table