



Agenda DATE 4/4/16 TIME 8:32a  
SERVED BY Christine Chavez  
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**SANTA FE WATER CONSERVATION COMMITTEE MEETING**  
**CITY HALL - 200 LINCOLN AVE.**  
**CITY COUNCILORS' CONFERENCE ROOM**  
April 12, 2016  
4:00 PM TO 6:00 PM

1. CALL TO ORDER
2. ROLL CALL
3. APPROVAL OF AGENDA
4. APPROVAL OF MINUTES TUESDAY FEBRUARY 9, 2016 WATER CONSERVATION COMMITTEE MEETING
5. APPROVAL OF MINUTES TUESDAY MARCH 8, 2016 WATER CONSERVATION COMMITTEE MEETING

**ACTION ITEMS:**

6. A RESOLUTION AMENDING RESOLUTION NO. 2008-40 REGARDING MEMBERSHIP OF THE SANTA FE WATER CONSERVATION COMMITTEE TO INCLUDE TERM LIMITS FOR COMMITTEE MEMBERS.  
(Councilor Ives, Christine Chavez, 5 minutes)

**DISCUSSION ITEMS:**

7. DRAFT GPCD ANALYSIS (Christine Chavez, Alan Hook, 20 minutes)
8. WATER SYSTEM MAP (Christine Chavez, 10 minutes)
9. IMPLEMENTATION OF STRATEGIC MARKETING PLAN (Christine Chavez, 20 minutes)
10. DISCUSSION OF WATER CONSERVATION PROGRAM (Christine Chavez, 20 minutes)

**INFORMATIONAL ITEMS:**

11. 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 (20 minutes)
12. 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 MAY 10, 2016:**

**CAPTIONS:** APRIL 25, 2016 @ 3 PM.

**PACKET MATERIAL:** APRIL 27, 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  
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APRIL 12, 2016

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| Cover Page   |  | Page 0   |
| Roll Call/Call to Order  | 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. 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   |

**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)

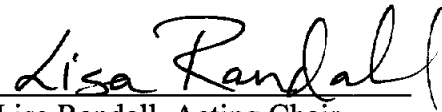
Nick Schiavo to attend August Meeting, Customer Portal Discussion

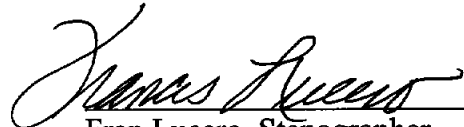
QWELL documents to be translated in to Spanish: Ms. Chavez will bring documents to prioritize at next meeting.

## **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

**Below is a report from the Code/Regulations/Legislation Workgroup**

**City of Santa Fe Investigating RWH Ordinance**

Supposed to report back in 60 days. Approved at November 2015 meeting. Tied to the Green Building Code update.

**City of Santa Fe UPC 2015 Plumbing Code Approval**

UPC 2015 covers new alternatives water sources (i.e. rainwater and greywater). It requires locks on outdoor hydrants/spigots. It adopts Chapter 17, where the state made this optional.

- Approved City Council Meeting
- Public Utilities on 1/6/16
- Public Works on 1/11/16
- Council Request to Publish on 1/13/16
- Finance on 1/19/16
- Council Public Hearing on 2/10/1

The above were the original dates. Tied to the Green Building Code update.

**2016 State Legislative Bills of Interest**

1. MAKING AN APPROPRIATION FOR DRINKING WATER SYSTEM  
FINANCING \$1.8M bill - <https://legiscan.com/NM/text/HB19/2016>

2. Rapid Workforce Development Act - Monies available to higher learning institutions (SFCC) -  
<https://legiscan.com/NM/text/SB92/2016>

3. WASTEWATER SYSTEM FINANCING - \$1.4M -  
<https://legiscan.com/NM/text/HB160/2016>

4. <https://legiscan.com/NM/text/HB160/2016> - This is the bill with all funded projects -  
<https://legiscan.com/NM/text/HB167/2016>

18. to the city of Santa Fe in Santa Fe county for a water conservation or treatment, recycling or reuse project;

5. General funding bill - <https://legiscan.com/NM/text/HB2/2016>

(c) Water resource research institute - looks to be \$2M allocated to this. Not sure if we can leverage or not

6. forest land protection revolving fund - <https://legiscan.com/NM/text/SB110/2016>

**ICC Rainwater Standard**

Draft is attached. Also a link

*Exhibit A.*

Next meeting is  
to review public comments and create next version.

[https://dl.dropboxusercontent.com/u/31660310/Public-Review-Draft-1-CSA\\_ICC-B805-201x-Rainwater-Harvesting-092315.pdf](https://dl.dropboxusercontent.com/u/31660310/Public-Review-Draft-1-CSA_ICC-B805-201x-Rainwater-Harvesting-092315.pdf)

**ANSI/American Society of Agricultural and Biological Engineers (ASABE) Weather-based Landscape Irrigation Control Systems**

The above is in voting phase. Comments/votes done April 2nd.

**X626, Uniformity Test for Landscape Irrigation Systems (formerly Auditing Landscape Irrigation Systems)**

ASABE has begun work to establish a uniformity test for landscape irrigation systems. The draft is approximately 90% complete. Per ASABE's ANSI-accredited standardization procedures, input from voting and non-voting members, as well as the general public, shall be addressed during the balloting process. If you wish to provide input on the project, please contact Travis Tsunemori with ASABE.

**EPA End User Water Reuse Study**

Likely to be published in the spring of 2016. It will include outdoor watering. This is an update from 1991 study.

**Additional information**

I attended the attached conference out in San Francisco as part of a trip to promote WERS. Good conference and I will include links to presentations in next months packet. They are not yet up on the website.

Bob you may be interested in the WELO presentation. The EnergyWater nexus presentation is of course interesting as well.

An interesting article on Tucson is also attached.

Presented at Alternative Water Sources Working Group in Marin. A presentation of interest was the College Water Efficiency Group. Doing some really cool stuff at the university level. Can forward presentation if any one is interested.

Also met with a QWEL representative. They are incorporating drip into the training, but not lengthening the course. Expect to have done this year.