



Agenda

DATE 9/29/16 TIME 2:33pm

SERVED BY Christine Chavez

RECEIVED BY [Signature]

**SANTA FE WATER CONSERVATION COMMITTEE MEETING
CITY HALL - 200 LINCOLN AVE.**

CITY COUNCILORS' CONFERENCE ROOM

October 4, 2016
4:00 PM TO 6:00 PM

1. CALL TO ORDER
2. ROLL CALL
3. APPROVAL OF AGENDA
4. APPROVAL OF MINUTES FROM THE SEPTEMBER 13, 2016 WCC MEETING

ACTION ITEMS:

5. 2017 Meeting schedule (Christine Chavez, 15 minutes)

INFORMATIONAL ITEMS:

6. AWWA Audit (Christine Chavez, 15 minutes)
7. Conservation Program Updates (Christine Chavez, 15 minutes)
 - A. Water Conservation Survey
 - B. Children's Water Fiesta
 - C. Program changes
8. Group Reports from Water Conservation Committee Working Groups
 - A. GROUP A - Irrigation Rebate and QWEL (Doug Pushard – 15 minutes)
 - B. GROUP B - Expansion of the K-12 Education Program (Robert Coombe – 15 minutes)
 - C. GROUP C - Water Conservation Codes, Ordinances and Regulations (Doug Pushard – 15 minutes)
9. SOURCE OF SUPPLY – Drought Update

MATTERS FROM PUBLIC:

MATTERS FROM STAFF:

MATTERS FROM COMMITTEE:

NEXT MEETING – TUESDAY NOVEMBER 1, 2016:

CAPTIONS: OCTOBER 17, 2016 @ 3 PM.

PACKET MATERIAL: OCTOBER 19, 2016 @ 3 PM.

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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October 4, 2016

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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 was not presented, reflected in roll call.	Page 1
Approval of Agenda	<i>Mr. Roth moved to approve the Agenda as presented, second by Mr. Michael, motion carried by unanimous voice vote.</i>	Page 2
Approval of Minutes, September 13, 2016	<i>Mr. Michael moved to approve the minutes of September 13, 2016 as presented, second by Mr. Lyon, motion carried by unanimous voice vote.</i>	Page 2
Action Item Approval of 2017 Meeting Schedule Amended: February 14, 2017 meeting to by February 7, 2017	<i>Mr. Roth moved to approve the 2017 WCC meeting calendar as amended, second by Mr. Michael, motion carried by unanimous voice vote.</i>	Page 2
Discussion Items <ul style="list-style-type: none"> • AWWA Audit • Water Conservation Survey 	Informational, no formal action.	Page 2 - 3
Informational Items <ul style="list-style-type: none"> • Group Reports • Source of Supply Report 	Informational, reports included in packet Source of Supply report included in packet.	Page 3 - 5
Matters from Committee	Informational	Page 5
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Next Meeting	Tuesday, November 1, 2016	Page 5
Adjournment and signature	Meeting was adjourned at 5:45 pm	Page 5

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

**OCTOBER 4, 2016
4:00 PM TO 5:45 PM**

MINUTES

1. CALL TO ORDER

Lisa Randall, Vice Chair for the Water Conservation Committee called the meeting to order at 4:05 pm in the City Councilors' Conference Room.

2. ROLL CALL

Present:

Lisa Randall
Doug Pushard
Tim Michael
Bill Roth
Justin Lyon

Not Present:

Aaron Kauffman, Excused
Stephen Wiman, Excused
Robert D. Coombe
Councilor Peter Ives

Others Present:

Christine Y. Chavez, Water Conservation Manager
Andy Otto, Santa Fe Watershed Association

Fran Lucero, Stenographer

Quorum Note:

A quorum was not available at this meeting. 6 members constitutes a quorum, 10 members is full membership excluding the Chair.

3. APPROVAL OF AGENDA

No Changes.

Mr. Roth moved to approve the Agenda as presented, second by Mr. Michael, motion carried by unanimous voice vote.

4. APPROVAL OF MINUTES SEPTEMBER 13, 2016 WATER CONSERVATION COMMITTEE MEETING
No Changes.

Mr. Michael moved to approve the minutes of September 13, 2016 as presented, second by Mr. Lyon, motion carried by unanimous voice vote.

ACTION ITEMS

5. APPROVAL OF 2017 MEETING SCHEDULE (Exhibit A)

Recommendation is to change February 14, 2017 date to February 7, 2017.

Mr. Roth moved to approve the 2017 meeting schedule as amended, second by Mr. Michael, motion carried by unanimous voice vote.

DISCUSSION ITEMS:

6. AWWA AUDIT

Ms. Chavez talked about the AWWA Audit at a previous meeting and commented that they were showing the non-revenue water in the negative and it can never be in the negative. There were several reasons for that, one they were doing a lot of estimates at that time as the meters were being switched out and the consumption data wasn't that great but they had good production data. This project has moved over to the Water Resources Department. There are two different methodologies you can use with AWWA, there is one and it can take about ½ hour to do and you make a bunch of assumptions and you give yourself basically whatever score you want. When Ms. Chavez worked with her past employers she always had a default assumption methodology base of her own when working with AWWA. What has been done also meets the requirements of the Trust Board application; this is one of the things that the City Water Resources has to do in order to apply. With this contract there were resources in the amount of \$30,000 a year to help us do this. The process that Ms. Chavez and Ms. Grosse are doing is a very involved process. Table included in the packet that explains the Water Audit Input Values they will focus on. The table indicates some of the things that they will be collecting. The contractor will be able to assist with the city/county data and readings. This audit will be pushed out in February 2017 and requesting final approval in March 2017 is the goal.

Mr. Pushard asked how does Santa Fe calculate the GPCD, what is included and next to it as there are slight variations.

Ms. Chavez stated that she would send a document regarding this information to better understand. Basically they are mandated by the state to use a specific methodology which is gallons per capita per day calculator. There are many utilities calculated differently but with this methodology everyone is doing it the same way so we can compare ourselves against each other with the same kind of data.

Ms. Chavez said instead of going back in time and trying to rationalize what did or didn't work, they will look at 2016, 2017 and 2018. 2016 should capture most of the new residential meters going in and 2018 will have all of the bigger and commercial meters and by that time we should have our process in place to capture how we do business. Question on meter responsibility? Ms. Chavez said that the City gets a spreadsheet from the county with the amounts and the city doesn't have a way to reconcile. This is an issue as you don't know if there is a revenue loss or gain. This contract has a meter specialist that can do this work. The contract was approved last year for 4-years but not used for this purpose, we will use the last 3 years of the contract.

7. CONSERVATION PROGRAM UPDATES

a. WATER CONSERVANCY SURVEY

Ms. Chavez has been sending the WCC members documents on the water conservancy survey. It is important to get feedback from the members. We have worked with John Alejandro in order to incorporate sustainability questions; it is in the Save Water Santa Fe Ap. Ms. Chavez suggested using the Nextdoor Ap and they have received a good response. It was noted that the Survey is also in Spanish. Data will be shared with John Alejandro, Sustainable Santa Fe which gives them a great opportunity to incorporate their thoughts as well.

Mr. Roth asked what is the expected response. Ms. Chavez said she believed it was 1/3 of the people responding to it but there is actual research that shows it is less than that. It has been sent out electronically and Ms. Chavez feels it will be responded to in a positive manner and more than expected.

Ms. Randall: What is more valuable a commercial or residential. Ms. Chavez said this survey was prepared to target more the residential customers. We need to develop and expand the commercial program on our end.

b. WATER FIESTA

Ms. Chavez said that a Teacher Task Force showed up the first day, 12 out of 15 responded and second day 10 out of 12 teachers responded. Several indicated that they attended the My Water – My Watershed.

Mr. Roth attended and said that he was very impressed. The kids were engaged and the WCC members were very impressed with the presentations. Presenters were very engaged in this event. Congratulations to Lisa Noriega and Caryn Grosse, she did a great job. There were approximately 700 kids and programs in every room of the convention center. Ms. Chavez said that the idea for next year is to utilize the high school students from many of the local schools as expeditors. We would like to do a peer-to-peer program for these students, possibly doing it for an extra day, as these students are really to present on their own. The amphibian display was great! There were 6-7 members from BDD and their participation was a great contribution. Included in the packet was the flyer and survey for lessons learned. Ms. Chavez said talking to the teacher's 1:1 was the greatest benefit.

c. PROGRAM CHANGES

An update and schedule is included in the packet of PR and Marketing trends. The "We Want Your Opinion" survey will run through October and part of November. The winning image is also included in the packet, which will go in tabletops for restaurants and one for hotels. The Water Conservation logo has also been changed to Save Santa Fe Water. *(It was noted that there is a misspelling in the Spanish version of the image).*

Southwest Plant Selector – They will be pushed to the electronic aps on the website. Staff will be working with the nurseries with some of the feedback that they responded to. The Chair suggested that it should go out to landscapers, building contractors and/or homebuilders association and others. Ms. Chavez asked for input from the WCC members. Master Gardeners are an excellent resource too. The Chair said as a committee, the members could push this Ap out to others who would appreciate it.

INFORMATIONAL ITEMS:

8. GROUP REPORTS FROM WATER CONSERVATION COMMITTEE WORKING GROUPS

a. GROUP A – IRRIGATION REBATE AND QWEL

Mr. Doug Pushard – Update included in the packet. (Exhibit B)

Mr. Pushard expressed his thank to Ms. Chavez for keeping the committees going. What has come out of the most recent meeting was to looking at a "do it yourself audit kid" modeled after a program in Ft. Collins. People can get a kit and do their own outdoor water palette. At last weeks meeting there were four different irrigation companies involved and they were excited to move forward. It was also suggested that the city provide a free rainwater sensor but they are stored at the 4-vendors places of business. If we get them involved in promoting these programs they get these things done.

There will be two different programs; the do it yourself and then the professional program, the two tiers will be good.

We teach QWEL, SFCC is going to pick this up, we need two authorizations, Christine will take the lead on the QWEL Instructors and Irrigation people have been asked as well. Ms. Chavez noted that in meeting with these four entities there was a discussion on the rebate they now have for the smart controller and we could partner with them to develop a brochure on all the things we offer a rebate for and on the other side all the things that Ewing sells, etc. We would also create a form for the receipts and they can assist the customer at that time and they would bring it in and they would get their rebate. Ms. Chavez said they are trying hard to have all applications and/or surveys, rebates electronically. They were talking about attaching the receipt to the application and city staff could pick it up from the vendor. It was also noted that it would be easier to send a receipt by PDF so customer would have the original receipt. It was requested that the city do a guide for irrigation systems, this is a request from the vendors; they would put their logo on the finished piece.

b. GROUP B – EXPANSION OF THE K-12 EDUCATION PROGRAM

Bob was there for the Teacher Task Force meeting; Ms. Chavez went and toured BDD to see what information they give the kids and participated in the tour that they give. She also visited the old recycling location only to learn that the city hauls the recycling to a contractor vs. using the equipment that exists. The thought was to take the kids to see the recycling and it won't work for the kids. The kids will be invited to a presentation to Keep Santa Fe Beautiful. It is now time to bring all the partners together at the table to get this program on its way. The Chair noted that there is no requirement for environmental teaching in schools and it is more a competition for time. Ms. Chavez said that this program would need to be aligned with school teachings during their time frame. We need to try out what is best for kids to know the value of water.

c. GROUP C – WATER CONSERVATION CODES, ORDINANCES AND REGULATIONS

Doug Pushard: (Exhibit B)

- Report on ICC was done at last meeting; sub-committee will meet in another month, they have voted on the changed and will send out for comments after final review.
- IAPMO is another water efficiency; it will not be a standard even though it says that, it will be a guideline before it becomes a standard over time.
- Mr. Roth also attended the City of Santa Fe Green Building WERS Code at the Finance Committee. There was council concern communicated on the extra employee and on the Code which they thought included too much to be done and it actually includes less. Mr. Pushard will send a note to have people support before the City Council. It did pass the Finance Committee.

The County is currently updating their Land Use and WERS will become an option for the requirement for a cistern. They will be able to have a requirement for a cistern or a WERS equivalent for a test. There are a lot of cisterns out there basically full. Suggested changes will now go through the formal process and the similarities should align with the city/county.

Chapter 25 Rewrite – No update.

US Senate passed the Water Resources Development Act of 2016 and the House passed a similar bill. They are not the same but have been both approved by the Senate and the House and it has funding, which will open up grant opportunities. There is about \$50 million dollars to support the development of new technology that addresses pressing water challenges. There is a lot of lead funding in this bill, water quality, watershed, it literally goes across the board where the money can be spent.

Mr. Pushard asked for the status of Group D. Ms. Chavez said that at this time it has been delayed until she can meet with the WCC members on this group.

9. SOURCE OF SUPPLY

Report included in packet.

Mr. Pushard asked about the limit in the reservoir, that we have 1,071 acre feet that went in to effect a couple of years back. Is that why the reservoirs are kept at a lower level than we would expect it to be?

Ms. Chavez will ask staff and provide an update at next meeting. Mr. Pushard said it looks like a new restriction, does it go off and on, he has never seen this before. That would limit what we keep in the reservoir. Mr. Roth referred to the Rio Grande Compact. Ms. Chavez will further research and provide information at next meeting.

Mr. Michael said it looks like something kicked in April 22, 2106, which limited the pool to 1,061 acre-feet.

The Chair referred to Section – Downtown ground water monitoring, can someone define: PCE. PCE is a Sampling – Poly Chlorine Ethylene is common in dry cleaning operations. PCEs are incredibly mobile; they are good to find where ground water contaminated the water because they move so fast. Is there a filtration for PCEs? No. Often you take the ground water out of the ground. What made it unusual is that it was found in the downtown area. PCB – there is some record of being found in the Santa Fe River.

MATTERS FROM PUBLIC

NONE

MATTERS FROM STAFF

- Working with Jessie Guillen to get a county member for the WCC.
- Giselle Piburn – Certificate of Appreciation – WCC members to sign certificate and staff will get it to her. Thank you for all her hard work.
- There was a suggestion to go to BDD, have a tour and hold the meeting at that location.

MATTERS FROM THE COMMITTEE

- Doug Pushard – 20 minutes next meeting for report on Water Summit.
- Mr. Tim Michael – assured that quorum is based on a membership of 10 people
- Lisa Randall – Working on Facilities Master Plan – SFPS – Proposing roof water catchment, underground cistern pumping up to landscaping.

NEXT MEETING – TUESDAY NOVEMBER 1, 2016:

ADJOURN

There being no further business to come before the Water Conservation Committee, the meeting was adjourned at 5:45 pm

Signature Page:



Lisa Randall, Acting Chair



Fran Lucero, Stenographer

2017 Meeting Schedule

Santa Fe Water Conservation Committee

Location: City Councilors' Conference Room, 200 Lincoln Avenue

Time: 4-6 PM


Day: Second Tuesday of the month (except as noted)

Meeting Date	Caption Deadline, 3 PM	Packet Material Deadline, 3 PM
Tuesday, January 10, 2017	Monday, January 2, 2017	Wednesday, January 4, 2017
Tuesday, February 14, 2017	Monday, January 30, 2017	Wednesday, February 1, 2017
<i>Amended: February 7, 2017</i>		
Tuesday, March 14, 2017	Monday, February 27, 2017	Wednesday, March 1, 2017
Tuesday, April 11, 2017	Monday, March 27, 2017	Wednesday, March 29, 2017
Tuesday, May 9, 2017	Monday, April 24, 2017	Wednesday, May 3, 2017
Tuesday, June 13, 2017	Tuesday, May 30, 2017*	Wednesday, May 31, 2017
Tuesday, July 11, 2017	Monday, June 26, 2017	Wednesday, July 5, 2017
Tuesday, August 8, 2017	Monday, July 24, 2017	Wednesday, July 26, 2017
Tuesday, September 12, 2017	Monday, August 28, 2017	Wednesday, August 9, 2017
Tuesday, October 17, 2015*	Monday, October 2, 2017	Wednesday, October 4, 2017
Tuesday, November 14, 2017	Monday, October 30, 2017	Wednesday, November 1, 2017
Tuesday, December 12, 2017	Monday, November 27, 2017	Wednesday, November 29, 2017

*Date changed due to holiday

Exhibit A.

Table B-1. Water Audit Input Values

				Use this column to gather data for input into the Audit spreadsheet.
Water supplied	System input value	Volume from own sources		
		Master meter error adjustment	All water diverted from groundwater or surface water, prior to treatment.	
			An estimate, or measure, of the degree of any inaccuracies that exist in the master meter measuring the volume from own sources. Be sure to note if this is an over-reading or an under-reading.	
		Water imported	Any water imported into the system from diversions not owned by the PWS completing the audit.	
		Water exported	Any water exported from the system to end-users not serviced by the PWS completing the audit.	
Authorized consumption	Billed authorized consumption/ revenue water	Billed metered	All metered consumption that is also billed. This includes all categories such as single-family residential, commercial, irrigation, standpipes, construction meters at fire hydrants, etc.	
		Billed unmetered	All billed consumption that is calculated based on estimates or norms but is not metered.	
	Unbilled authorized consumption/ nonrevenue water	Unbilled unmetered	Metered consumption that for any reason is not billed. This might include metered consumption by the utility itself or water provided to institutions free of charge.	

Irrigation Subcommittee Notes

1. Christine is working on submitting paperwork to CID to get City certified to teach QWEL for irrigation professionals. Need information for this packet. Specifically next QWEL classes:

Jan 23 - end of March 2017

May 31 - June 3rd 2017

Both at SFCC

Christine wants to also get Xubi QWEL certified and discussed dates for him to do a field audit walk through with staff. Xubi is providing the dates for this to happen at SFCC with the appropriate water folks from the school. It is being submitted to JD Baca at the state.

2. Christine wants to submit to the QWEL folks the following to be added to the QWEL training personnel list. Doug, Caryn, Jeff Adams and herself to be listed as instructors.

3. Discussed outdoor audit program for Do-It-Yourselfers (DYI). Fort Collins does this program and it would be similar to this program.

- Caryn to update the brochure to take out spray and add in drip irrigation. Also make it easier to read.
 - City or vendors would stock the Audit Test Kits
 - City would buy rain sensors and provide these FREE for completed audits
 - Discussed having rain sensors at vendor sites to give out after audit. This needs to be investigated. But having Vendors (e.g. Firebird and others) was agreed to be key.
4. Discuss professional audit program.
- Raise the rebate amount
 - Christine was going to talk to several vendors about the program and get some feedback on what they would like to see in a future program.
 - Doug raised the issue of not needing to be licensed to perform an audit. Also the requirement to break/fix work is limiting to the program. Rebate is going to the client not the person doing the work.
 - Want to add Drip incentives to the program.
 - Doug mentioned that moving from a non-hydrozoned system to a hydrozone system should be considered
5. Like to get changes to the rebates to in this year, so it is in the budget for next year.

Whit B.

6. Discussed having greywater as part of program. It would be modeled after QWEL program and coming from the folks in CA. Hopefully it will be taught at the Water Conference and get city/local personnel certified to teach this class.

7. Next meeting will discuss Commercial Irrigation Rebates.

Below is a report from the Code/Regulations/Legislation Workgroup for September WCC meeting.

ICC Rainwater Code

Committee votes on changes to code due August 27th. I have a copy of the ICC DRAFT Rainwater Harvesting Standard if anyone wants a copy please let me know. Next step is meeting to review the committees approved changes and then put out for another public review.

IAPMO Solicits Public Comments Toward Development of 2017 WE Stand

The International Association of Plumbing and Mechanical Officials (IAPMO®) is calling for public comments on formal proposals toward the development of the 2017 Water Efficiency and Sanitation Standard (WE Stand). No comments will be accepted after the 5 p.m. PDT Nov. 28 deadline.

<http://www.iapmo.org/WEStand/Pages/DocumentInformation.aspx>.

City of Santa Fe Green Building WERS Code Approval

- WCC Approval 9/13
- Public Utilities Committee on October 5th
- Finance Committee on the 19th
- City Council on October 13th

Chapter 25 Rewrite Update

- Nothing to report

Santa Fe County

WERS will be an option in the updated SLDC to cisterns in the county as currently proposed

US Senate Pass the Water Resources Development Act of 2016 (S. 2848)

The Water Resources Development Act of 2016 (S. 2848) is a comprehensive bill addressing diverse concerns, including lead contamination, sewer overflow control, water system security, drinking water conservation, and improving ports and waterways. Among its provisions, the bill will provide about \$270 million in mandatory funding for the EPA and other agencies to respond to drinking water emergencies and lead exposure, support needed flood control projects that protect millions of people and billions of dollars' worth of infrastructure, and authorize \$50 million annually for grants to support the development of new technology that addresses "pressing water challenges."

Enrique C

The legislation passed by a vote of 95-3. That bill is being harmonized with similar legislation passed by the House of Representatives before it seeks President Obama's signature.

http://www.epw.senate.gov/public/_cache/files/141a2eca-1a00-4392-a3f3-b69cc0cec872/edw16572.pdf