



Agenda

DATE 9/2/15 TIME 4:41pm
SERVED BY Robert Wood
RECEIVED BY Alicia Martinez

SANTA FE WATER CONSERVATION COMMITTEE MEETING
CITY HALL - 200 LINCOLN AVE.
LAND USE COMMITTEE MEETING ROOM
THURSDAY SEPTEMBER 10TH, 2015
4:00 PM TO 6:00 PM

1. CALL TO ORDER
2. ROLL CALL
3. APPROVAL OF AGENDA
4. APPROVAL OF CONSENT AGENDA
5. APPROVAL OF MINUTES August 11th, 2015- WATER CONSERVATION COMMITTEE MEETING
6. CONSENT ITEMS
7. CONSENT AGENDA
INFORMATIONAL
 - (a) Drought, Monsoon/El Nino, and ESA Update (Robert Wood, 5 minutes)
 - (b) Proposed Annual Resolution, 2015-16 – Concerning the Development of State Engineer Guidelines or Policies Regarding Municipal Best Management Practices for Precipitation Capture and Use. (Robert Wood, 5 minutes)

DISCUSSION ITEMS:

8. CLIMATE ACTION TASKFORCE (Councilor Ives, 10 minutes)

ACTION ITEMS:

9. Dissolution of Group #4

INFORMATIONAL ITEMS:

10. GROUP REPORTS FROM WATER CONSERVATION COMMITTEE INITIATIVES: (Councilor Ives, 45 minutes)
 - A. GROUP #1 – TREATED WASTE WATER AS DRINKING WATER SOURCE. (5 Minutes)
 - B. GROUP #5-WATER SYSTEM MAP (10 minutes)
 - C. GROUP #2- WATER CONSERVATION EDUCATION/OUTREACH (10 minutes)
 - D. GROUP #3- WATER CONSERVATION CODES, ORDINANCES & REGULATIONS – LEGISLATIVE UPDATE (10 minutes)
 - E. GROUP #4- REESTABLISH TREND OF NET ANNUAL REDUCTIONS IN PER CAPITA WATER USAGE AND IDENTIFYING LARGE WATER USERS (10 minutes)

MATTERS FROM STAFF:

- Vacancies - Water Conservation Staff & Committee – UPDATE.
- Website and advertising – UPDATE.

MATTERS FROM COMMITTEE:

MATTERS FROM PUBLIC:

NEXT MEETING – THURSDAY, OCTOBER 15, 2015:

CAPTIONS: MONDAY, SEPTEMBER 28, 2015 @ 3 PM.

PACKET MATERIAL: WEDNESDAY, SEPTEMBER 30, 2015 @ 3 PM.

ITEMS FOR NEXT AGENDA:

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
AUGUST 11, 2015

Cover Page		Page 0
Roll Call/Call to Order	The Water Conservation Committee Meeting was called to order by the Chair, at 4:00 pm in the City Councilor's Conference Room. A quorum was present at the time of roll call.	Page 1
Approval of Agenda	<i>Ms. Randall moved to approve the agenda as presented, second by Ms. Perez, motion carried by unanimous voice vote.</i>	Page 1
Approval of Consent Agenda	Dispense with Consent Agenda, WERS presentation to follow.	Page 1
Approval of Minutes, July 14 2015	<p>Corrections:</p> <p>Page 3: Mr. Woods – should be Mr. Wood</p> <p>Page 4: b. – 2nd paragraph, 3rd line: councilor – should be councilors</p> <p>Page 6: Matters from Staff: J.D. Shagrough Sugrue</p> <p>Matters from the Public: Ms. Piburn was not in attendance at the meeting of July 14, 2015 and she has not received any calls on fluoridation.</p> <p><i>Mr. Michael moved to approve the minutes of July 14 2015 as amended, second by Ms. Piburn, motion carried by unanimous voice vote.</i></p>	Page 1-2
CONSENT AGENDA	WERS PRESENTATION	Page 2-4
Discussion Items (Cont'd) <ul style="list-style-type: none"> • Climate Action Task Force • Vacancies on the Water Conservation Committee • Differences in Soil Moisture at Curb Cuts with and without rain gardens installed at the Santa Fe Community College 	Informational, no formal action.	Page 4
Informational Items	Informational	Page 5
Group Reports		
Matters from Staff	Informational	Page 5
Matters from Committee	Informational	Page 6
Matters from the Public	Informational	Page 6
Next Meeting	Tuesday, August 24, 2015	Page 7

Adjournment and signature	Meeting was adjourned at 5:45 pm	Page 7
---------------------------	-------------------------------------	--------

SANTA FE WATER CONSERVATION COMMITTEE MEETING
CITY HALL - 200 LINCOLN AVE.
CITY COUNCILORS' CONFERENCE ROOM
TUESDAY, AUGUST 11, 2015
4:00 PM TO 5:45 PM

MINUTES

1. CALL TO ORDER

Councilor Peter Ives, Chair for the Water Conservation Committee called the meeting to order at 4:00 pm in the City Councilors' Conference Room. A quorum is reflected in the roll call.

2. ROLL CALL

Present:

Councilor Peter Ives, Chair
Lisa Randall, Vice Chair
Tim Michael
Grace Perez
Doug Pushard
Giselle Piburn
Bill Roth

Not Present:

Stephen Wiman

Staff Present:

Robert Wood, Water Conservation Specialist Senior

Others Present:

Andy Otto, Santa Fe Watershed
Jim Lodes, Citizen
Bob Kreger, Citizen
Kim Shanahan, SFAHBA
Aaron Kaufman, Southwest Urban Hydrology
David Dunlap, WERS Committee Presenter

3. APPROVAL OF AGENDA

Ms. Randall moved to approve the agenda as presented, second by Ms. Perez, motion carried by unanimous voice vote.

4. APPROVAL OF CONSENT AGENDA

Dispense with Consent Agenda. WERS Presentation to follow.

5. APPROVAL OF MINUTES JULY 14, 2015 - WATER CONSERVATION COMMITTEE MEETING

Corrections:

Page 3: Mr. Woods -- should be Mr. Wood

Page 4: b. – 2nd paragraph, 3rd line: councilor – should be councilors
Page 6: Matters from Staff: J.D. ~~Shagrough~~ Sugrue

Matters from the Public: Ms. Piburn was not in attendance at the meeting of July 14, 2015 and she has not received any calls on fluoridation.

Mr. Michael moved to approve the minutes of July 14 2015 as amended, second by Ms. Piburn, motion carried by unanimous voice vote.

6. CONSENT ITEMS
7. CONSENT AGENDA

INFORMATIONAL - WERS PRESENTATION – Doug Pushard

David Dunlap: Presenter – Introduction of Kim Shanahan (Presentation by Power Point)
Mr. Dunlap said he believes everyone is comfortable and knows what WERS is, Water Efficiency Rate in store. The first of its kind interactive water conservation tool for both new and existing homes. WERS is spreadsheet based and measures indoor and outdoor water usage to arrive at a score from 0-100 with lower being better. They are capturing data such as the project foot print, indoor fixtures and appliances, faucets, showers, toilets, dishwashers – they are including things such as water treatment, evaporative coolers, humidifier's, shut off valves, which is all in the inside. On the outside they are looking at irrigation, gardening, permeable paving, plant types, plant density, irrigation distribution, retention ponds, and all the methods – all the storm water prevention pollution efforts to keep water on the property.

Mr. Pushard noted this is a performance base vs. a prescriptive based tool and this is important for everyone to understand because it is easy to confuse what is a prescriptive base vs. a performance base.

Mr. Shanahan said it is a predictive performance based.

Mr. Pushard said so what it gives you is like miles per gallon on your car, what the behavior of the house miles per gallon should be under normal occupancy both indoor and outdoor. As Mr. Dunlap has said, there is believe it or not, no tool like this. This is the first of a kind, EPA is a member of the WERS technical team and very supportive because there is no tool like this and they would like to see a tool like this.

Mr. Dunlap said what we have currently that are dictating our water efficiency and conservation efforts within the codes, the city of Santa Fe Green Building Code is based on house square footage and it is a point system that does not correlate to gallons. On the plus side it does represent choices for the homeowners. Ultimately best practices should be encouraged equally and if it is by point's people will tend to gravitate to the lowest cost points. How do I just meet my minimum compliance that may not be the greatest savings opportunities within a home? It may not even be the greatest savings opportunities for the same expense. We also have all of the codes that are part of the Land Use Development Code. 5 to 6 pages worth of prescriptive requirements for storm water retention, runoff, ponding, etc., passive and active water harvesting. Part of the WERS predictive performance path to water conservation can offer is allowing the codes

to be focused on health and safety and have an objective measurement for water conservation goals.

Mr. Wood said he has noticed at times where in the Land Use Code in different sections they contradict themselves especially when it comes to NW quadrant, were you able to account for all that.

Mr. Dunlap said that is a tough job, what we are trying to do is measure and quantifies the things that can be measured and quantified within the site. The sites that were prescriptive were mandatory things allowing the codes to become an overlay to that – saying here is what we think is appropriate in this location but then we say this is what we can objectively quantify.

The Chair asked the question, we call it predictive performance and thoroughly you can evaluate whether a house has the attributes such as low water use, washers, those types of things, those attributes against the points that are allocated. Are we not taking some norm in terms of the use?

Mr. Dunlap said that there are some national agreed upon studies that have been done that document typical occupants nationally in the US; they wash their hands this many times, they flush the toilet this many times, we are using those accepted standards for per occupants in home. We are measuring occupants as a number of bedrooms plus one and then we are using the fixture main factoring standard or what a field verified might test on that fixture in the field as the gallons per minute that goes in to that home.

Chair Ives: In terms of that “normal person” today, is that assessment different in other parts of the country. Is there a variance.

Mr. Dunlap said there isn't a variance because we are making it a national tool and what we expect to find in that if we run 10 case studies in Santa Fe and 10 case studies of similar kinds of homes, similar types of occupancy in Michigan or Florida we would see a much higher score in Michigan or Florida or someplace where conservation is not as ingrained as it is here. That is appropriate; we are already more conservation minded so we should be scoring better. There are ways that we can capture the conservation as being built in to what we are doing now. In terms of the user behavior that would only be measurable by actual metering data.

The Chair stated that the reason we ask was based on the fact that the city is putting in new meters and new billing system that might have a capacity to evaluate household by household. We might be able to gather that information.

Mr. Shanahan said they are looking at this as a micro-tool for each individual house but it can also be looked as a macro tool for jurisdiction.

Mr. Pushard noted that where we do an indoor/outdoor split that is actually a local. That number would be indoor/outdoor split would be very different for Santa Fe even compared to Albuquerque but when you get to Florida or Wisconsin that will be totally different. It is a local number or parameter factored in.

Mr. Dunlap said there is some importance in being able to compare one house from another independently in occupancy. This infrastructure coming in today allows us to

look at those homes with occupancy. Gallons per capita per day is the current number the water utility generates annually and reports to the State Engineer. This is a number that is useful for looking at what an expected 3 or 4% occupancy would be for a home moving forward based on historical information. Unfortunately the hard data that we have currently is just strictly per meter per household so we don't know anything about them automatically by that usage what is going on behind the meter, who is in that house. We don't have indoor vs. outdoor except in some very specific places like in Las Campanas where they have dual meters, they are gathering data for indoor/outdoor split. It would be great to consider having a separate outdoor meter behind the main meter for the city. These are great tools. We are looking at taking the historical data that we have and comparing some of the test houses that we are running for WERS now and comparing them to the historic data and see where they fall relative to those averages. WERS is built to be a trade off matrix, performance based – the restriction around the tool is total water usage, i.e., the score. One of the great things that allows is within a particular jurisdiction the city or county may decide whether they want to impose mandatory requirements or turf restrictions or types of irrigation, those can all still occur as prescriptive pathways but the WERS can function independently from that.

Screen shots were included in the packet.

(Exhibits Attached – A)

Ms. Lisa Randall assumed the Chairmanship with the exiting of Councilor Ives: 5:15 pm

DISCUSSION ITEMS:

8. CLIMATE ACTION TASKFORCE – COUNCILOR IVES TO REPORT AT NEXT MEETING.
9. VACANCIES ON THE CONSERVATION COMMITTEE
A News Release was issued on July 15, 2015 announcing openings for members to serve on the Water Conservation Committee. The request has been sent out to the City Councilors offering them the opportunity to also make recommendations. Mr. Wood encouraged the members to submit names to the Mayor and Council of any suggested candidates for the committee.
10. DIFFERENCES IN SOIL MOISTURE AT CURB CUTS WITH AND WITHOUT RAIN GARDENS INSTALLED AT THE SANTA FE COMMUNITY COLLEGE – (Aaron Kauffman, 15 minutes)

(Slide presentation was followed by the WCC members) Exhibit B

QUESTIONS:

Do you think you will do further testing at the sites.

Mr. Kauffman said that the equipment is out at the site, there was funding for 9 months. Equipment is very expensive; to look at other soil textures would be an investment. It would be valuable to look at others. At this time there is no additional funding available.

INFORMATIONAL ITEMS:

11. GROUP REPORTS FROM WATER CONSERVATION COMMITTEE INITIATIVES:
 - A. GROUP #5-WATER SYSTEM MAP
No updates. There was a nice article in the New Mexican on the water map.
 - B. GROUP #2- WATER CONSERVATION EDUCATION/OUTREACH
No Updates.
 - C. GROUP #3- WATER CONSERVATION CODES, ORDINANCES & REGULATIONS – LEGISLATIVE UPDATE
Updated earlier in the meeting.
 - D. GROUP #4- REESTABLISH TREND OF NET ANNUAL REDUCTIONS IN PER CAPITA WATER USAGE AND IDENTIFYING LARGE WATER USERS
Mr. Michael asked if we could dissolve this group. This information will be taken back to the chair and listed as an action item for the next meeting to dissolve group #4.
 - E. GROUP #1 – TREATED WASTE WATER AS DRINKING WATER SOURCE.
No report.

MATTERS FROM STAFF

- Vacancies - Water Conservation Staff & Committee
 - A candidate for the Water Conservation Manager was available and the offer was rejected. The position will be re-advertised.
 - Quita Ortiz has taken a position with the Water Resources Group for career advancement.
 - The Intern will be on board through October, 2015.

The WCC members offered to help in any way possible. Mr. Wood said they will be staffing a booth at the SWAN Park, Mr. Wood will gladly accept any help from the members. The entire park is recycled water other than the drinking water and we need to get the word out. Ms. Randall asked if there is English/Spanish Signage. Mr. Wood will check on this and update at next meeting.

- Website and advertising
Advertising is still on hold pending administrative direction. This is not creating a problem as most of our advertising is done in April, May and June. Mr. Wood stated that until they have further direction they are not moving forward.

Mr. Pushard suggested that once staff gets direction he would like to have information brought to the WCC members to review the advertising plan for concurrence. In the past this was one of the weak links not being fully aware where the advertising would be placed.

- Drought, Monsoon/El Nino, and ESA
(Report included in packet)

MATTERS FROM COMMITTEE:

Questions on the Animas River, does it affect the BDD? Mr. Wood said that the BDD is not affected. Mr. Wood said that the awareness has been educational for the public to know that we could be affected at any time.

Mr. Pushard asked for information on the Demand Hardening Study. Mr. Wood will look in to this matter.

MATTERS FROM PUBLIC:

Jim Lodus: Study on Santa Fe River Basin, has that been completed. Mr. Pushard responded that this was an item discussed about 6 months ago and it has gone to the Bureau of Reclamation.

NEXT MEETING – THURSDAY, SEPTEMBER 10, 2015:

Same time, different date in the Land Use Committee Meeting room.

CAPTIONS: MONDAY, AUGUST 24, 2015 @ 3 PM. PACKET MATERIAL: WEDNESDAY, SEPTEMBER 30, 2015 @ 3 PM.

ITEMS FOR NEXT AGENDA:

Dissolution of Group #4

ADJOURN

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

Signature Page:

Councilor Peter Ives, Chair

Lisa Randall, Vice Chair



Fran Lucero, Stenographer

Drought, Monsoon/El Nino, and ESA Update

As the Committee/Board is aware, our region has suffered through a prolonged drought, lasting over four consecutive years of record drought, heat, and wildfires – albeit drought conditions have eased lately due to the reappearance of a strong El Nino. Recent model runs indicate the probability of a much wetter and cooler than normal fall and winter. However, the models also indicate the probable return of drought conditions by late spring or summer in 2016, which could present significant challenges to all water purveyors, water utilities, and irrigators going forward. Regional reservoir levels on the Rio Grande and Chama Rivers are still low but rising. Deliveries from the SJCP Project have been recently upgraded. The City has received about 93% of normal firm yield through August 1st of this year. If the active monsoonal precipitation continues it is possible that the City could receive 100% of normal firm yield. There are no water-related Endangered Species Act (ESA) updates. Updates on endangered species issues will be made as needed. A draft “Biological Assessment” (BA) has recently been issued by the BoR (addressing broad ESA coverage for significant listed species such as the SW willow flycatcher and the silvery minnow). However, it is still too soon for City staff, other water management agencies, and related regulatory agencies, to have completed a review of the documents. Updates on this issue will be made as appropriate.

SJCP Reservoir Storage as of August 19, 2015:

Heron:

3,942 AF, of which is 2014 carryover storage due to BoR waiver, must be vacated by September 30, 2015

4,855 AF of 2015 storage must be vacated by December 31, 2015 unless BoR waiver is obtained through April 30, 2016

El Vado:

0 AF

Abiquiu:

8,498 AF SJCP carry-over from previous years, no time limit to vacate due to storage agreement with ABCWUA



**PROPOSED
2015-2016
ANNUAL
RESOLUTIONS**

**Presented To:
Resolutions Committee
July 25, 2015
Albuquerque, NM**

RESOLUTION 2015-16

CONCERNING THE DEVELOPMENT OF STATE ENGINEER GUIDELINES OR POLICIES REGARDING MUNICIPAL BEST MANAGEMENT PRACTICES FOR PRECIPITATION CAPTURE AND USE

Whereas, adequate water resources are a prerequisite to the health and economic wellbeing of New Mexico's communities; and

Whereas, water is a fragile and finite resource in New Mexico; and

Whereas, under New Mexico water law, all ground and surface water belongs to the public, but is subject to appropriation; and

Whereas, precipitation can be both a significant water resource and a significant water quality concern when storm water or melting snow runs off into New Mexico streams, rivers and lakes; and

Whereas, the New Mexico Office of the State Engineer encourages water conservation in all water sectors; and

Whereas, in accordance with a Rainwater/Snowmelt Harvesting Policy adopted November 24, 2004 (http://www.ose.state.nm.us/wucp_policy.html), the New Mexico Office of the State Engineer supports the wise and efficient use of the state's water resources and encourages the harvesting, collection and use of rainwater from residential and commercial roof surfaces for on-site landscape irrigation and other on-site domestic uses; and

Whereas, in the same policy, the New Mexico Office of the State Engineer established that water harvested from roof tops may not reduce the amount of runoff that would have occurred from the site in its natural, pre-development state; and

Whereas, the NM Office of the State Engineer has stated that harvested water may not be appropriated for uses other than on-site landscape irrigation and domestic uses; and

Whereas, the USEPA has drafted a revised national storm water rule, and has drafted a municipal separate storm sewer system (MS4) permit for the middle Rio Grande watershed, both of which require MS4s to implement Best Management Practices (BMPs) to reduce pollutant discharges in urban runoff ; and

Whereas, storm water BMPs include the use of green infrastructure practices and low impact development approaches, which commonly utilize storm water detention, and storm water retention for on-site irrigation and/or infiltration; and

Whereas, the New Mexico Office of the State Engineer's Rainwater/Snowmelt Harvesting Policy, by restricting landscape irrigation and domestic uses to individual property sites, may impede the ability of municipalities to improve surface water quality and to encourage outdoor water conservation by managing storm water using green infrastructure BMPs; and

Whereas, the New Mexico Office of the State Engineer has met with the NMML Environmental Quality Association and has expressed a willingness to pursue resolution of any conflicts between the Rainwater/Snowmelt Harvesting Policy and USEPA BMP requirements for MS4s.

Now, Therefore, Be It Resolved that the New Mexico Municipal League, through its Environmental Quality Association, will work with the New Mexico Office of the State Engineer to develop storm water Best Management Practice guidance for New Mexico municipalities, defining municipal-scale BMPs that are consistent with NMOSE rules and policies. Based on this guidance, NMML will pursue the issuance of an NMOSE policy regarding municipal-scale precipitation capture through BMPs (provided that such BMPs do not reduce the volume of discharge that would have occurred from the natural, pre-development state), to allow for conservation of water resources, protection of water quality, and maintenance of adequate stream flow to meet downstream compact obligations.

Passed, Approved and Adopted this 3rd day of September at the City of Albuquerque, New Mexico.

2015 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
January 13, 2015	Tuesday, December 23, 2014	Monday, December 29, 2014
February 10, 2015	Monday, January 26, 2015	Wednesday, January 28, 2015
March 10, 2015	Monday, February 23, 2015	Wednesday, February 25, 2015
April 14, 2015	Monday, March 30, 2015	Wednesday, April 1, 2015
May 12, 2015	Monday, April 27, 2015	Wednesday, April 29, 2015
June 9, 2015	Friday, May 22, 2015	Wednesday, May 27, 2015
July 14, 2015	Friday, June 26, 2015	Monday, June 29, 2015
August 11, 2015	Monday, July 27, 2015	Wednesday, July 29, 2015
September 10, 2015 (Thursday)	Monday, August 24, 2015	Wednesday, August 26, 2015
October 15, 2015 (Thursday)	Monday, September 28, 2015	Wednesday, September 30, 2015
November 10, 2015	Monday, October 26, 2015	Wednesday, October 28, 2015
December 8, 2015	Friday, November 20, 2015	Monday, November 23, 2015