



Agenda

SANTA FE WATER CONSERVATION COMMITTEE MEETING
CITY HALL – 200 LINCOLN AVE.
CITY COUNCILOR'S CONFERENCE ROOM
January 14, 2020
4pm – 6pm

CALL TO ORDER

1. ROLL CALL
2. APPROVAL OF AGENDA
3. APPROVAL OF CONSENT AGENDA
4. APPROVAL OF MINUTES FROM THE DECEMBER 10, 2019 MEETING

ITEMS ON CONSENT:

5. WATER DIVISION UPDATE (Andrew Erdmann, Water Conservation Specialist Senior, paerdmann@santafenm.gov, 955-4223)

INFORMATIONAL ITEM:

6. LONG RANGE WATER RESOURCE PLANNING: A SNEAK PEAK AT WATER DIVISION IDEAS FOR A SCIENTIFICALLY BASED, STAKEHOLDER GUIDED WATER RESOURCES PLANNING CYCLE (Jesse Roach, Water Division Director, jdroach@santafenm.gov, 955-4309)

ACTION ITEMS:

7. APPROVAL OF 2020 SCORECARD (Christine Chavez, Water Conservation Manager, cychavez@santafenm.gov, 955-4225)
8. ROUNDTABLE DISCUSSION ON COMMITTEE GOALS FOR 2020 (Councilor Romero-Wirth, cromero-wirth@santafenm.gov)

MATTERS FROM PUBLIC:

MATTERS FROM STAFF:

MATTERS FROM COMMITTEE:

NEXT MEETING – (Councilor's Conference Room): TUESDAY, FEBRUARY 11, 2020

CAPTIONS: DUE BY 3:00 PM, JANUARY 27, 2020

PACKET MATERIAL: DUE BY 3:00 PM, JANUARY 29, 2020

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.

RECEIVED AT THE CITY CLERK'S OFFICE

DATE: January 7, 2020

TIME: 4:44 PM

**SUMMARY OF ACTION
 SANTA FE WATER CONSERVATION COMMITTEE MEETING
 CITY HALL - 200 LINCOLN AVENUE
 CITY COUNCILOR'S CONFERENCE ROOM
 TUESDAY, JANUARY 14, 2020, 4:00 PM**

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**SANTA FE WATER CONSERVATION COMMITTEE MEETING
CITY HALL - 200 LINCOLN AVENUE
CITY COUNCILOR'S CONFERENCE ROOM
TUESDAY, JANUARY 14, 2020, 4:00 PM**

CALL TO ORDER

The meeting of the Santa Fe Water Conservation Committee was called to order at 4:00 pm by Councilor Carol Romero-Wirth, Chair, on Tuesday, January 14, 2020, at City Hall, in the City Councilor's Conference Room, Santa Fe, New Mexico.

1. ROLL CALL

MEMBERS PRESENT

Councilor Carol Romero-Wirth, Chair
Stephen Schmelling
Scott Bunton
Bob Coombe
Jerry Jacobi
Beth Kirby
Reese Baker
Peggy Wright

MEMBERS ABSENT

Maria DeAnda-Hay, Excused
Ken Kirk, Excused
Matt O'Rielly

OTHERS PRESENT

Jesse Roach, Director, Water Division
Christine Chavez, Director, Water Conservation Division
Rick Carpenter, Source of Supply Director, Water Division
Andrew Erdmann, Water Conservation Division
Andy Otto, Santa Fe Watershed Association
Mario Torres, Water Conservation Division
Patricio Pacheco, Water Conservation Division
Dennis Dickinson
Elizabeth Martin, Stenographer

2. APPROVAL OF AGENDA

MOTION A motion was made by Mr. Bunton, seconded by Ms. Kirby, to approve the agenda as presented.

VOTE The motion passed unanimously by voice vote.

3. APPROVAL OF CONSENT AGENDA

MOTION A motion was made by Ms. Kirby, seconded by Mr. Coombe, to approve the consent agenda as presented.

VOTE The motion passed unanimously by voice vote.

**4. APPROVAL OF MINUTES
DECEMBER 10, 2019**

MOTION A motion was made by Mr. Schmelling, seconded by Mr. Baker, to approve the minutes as presented.

VOTE The motion passed unanimously by voice vote.

ITEMS ON CONSENT

5. WATER DIVISION UPDATE

Approved on consent.

INFORMATIONAL ITEMS

6. LONG RANGE WATER RESOURCE PLANNING: A SNEAK PEAK AT WATER DIVISION IDEAS FOR A SCIENTIFICALLY BASED STAKEHOLDER GUIDED WATER RESOURCES PLANNING CYCLE. Jesse Roach

Mr. Roach reviewed a slide presentation. The presentation is herewith attached to these minutes as Exhibit "1".

Mr. Roach said the long range planning Resolution sponsored by Councilor Romero-Wirth passed. That gives us the ability to do a 40 and an 80 year water plan. There is a lot of uncertainty of course when you look at the future as to supply and demand. We would like to have some preferred projects and initiatives to work toward that. We look out a ways and see potential shortages and then need adaption plans and that leads to projects. The one on everyone's mind is the pipeline project. We

need scenario development that can help us in other places. In the short term, ten years out, we would like to know where the City will grow, are our pipes big enough, etc. That will feed shorter term nuts and bolts planning and long range planning. An approach is the first step. We have been doing water planning at the City since we were a City water system. This is the proposal.

This is for a five year cycle. This year we will define the process. In 2021 we will develop the scenarios, in 2022 we will evaluate the shortages from the scenarios, in 2023 we will develop and rank adaption scenarios, in 2024 we will complete the 40 and 80 year plans and in 2025 we will evaluate what worked and what did not work.

Our planning horizon is way out there. We want to be thinking about what we need in the coming years. Within five years it is our intent to have our plans included in our capital improvement plan and we plan to be moving dirt. Every five years we will update the long range plans. The first step is to take all ideas without judgement and they will fall out if they are not feasible. We want to consider everything. We are going to be open to all ideas.

We are focused on four things. Inflows to McClure, and to the tunnels in the San Juan/Chama project, flows at Embudo and the amount of storage at Elephant Butte. That is what we are interested in. There are models that will tell us that and how to create scenarios.

We applied for a grant last year from the Bureau of Reclamation for \$400,000 and got it. It is a matching grant and with that we are going to improve our water planning model. They are called out in the scenario to help with making data available. Water Maps is our planning model we are using at this time. The grant timeline is flexible. We will develop the tool and not in a rush.

The on demand scenario is something that is right in the wheelhouse of this group. It is a combination of a population scenario and how much growth there will be and where we will be growing. We are hopeful we can tie in with the City of Santa Fe zoning on that. He was working with the Bureau of Reclamation on the Basin Study prior to coming to the City. How quickly will the shortages set in was the question of the Basin Study. One of the interesting outcomes from the study is that when you compare the level of uncertainty with supply scenarios to the uncertainty of demand the demand uncertainty was larger than the supply uncertainty. That was a bit surprising to him. We need to spend more money on demand scenarios. He hopes in this cycle we can come up with better way to look at demand scenarios,

Mr. Schmelling said also you have to make assumptions about political decisions.

Chair Romero-Wirth said true. Do we legalize marijuana, which is a water demanding crop and a population driver.

Mr. Roach said how much water are people using. How can we incentive this to reduce that. That all needs to be included in the scenarios as well as population growth. It could be all over the map. We are thinking of intelligent ways to look at those scenarios.

Mr. Coombe said those two are not independent of one another and one is not independent of the supply side. If things dry up the population will decline.

Mr. Schmelling said or we could double the rates.

Mr. Roach said in some ways we are thinking about supply, population and per capita use impacted by rates. We could come up with adaption strategies with that. That is the impact on the behavior piece.

Mr. Schmelling said per capita use seems to be declining.

Mr. Roach said the conservation group could give us data and thoughts on that more than the demographers could. We will have public meetings to get ideas, comments, needs, what they would like to see and possible solutions. We will feed that information into the model to tell us how much impact the ideas have on storage and the approximate cost for that idea and the acre feet saved. Then we will rank the projects for the 40 and 80 year plans.

Chair Romero-Wirth said some of the public workshops will be brain storming events as well.

Mr. Roach said yes. We will also be working on an Asset Management Plan and our Infrastructure Plan. Our Capital Project Improvement Plan is written for five year priorities.

Ms. Chavez asked why the 40 and 80 year plans.

Mr. Roach said the idea is that the 40 year plan pops out often as a requirement in water management. It is something we need to have regularity, but the tools are there to go further out. Lets go out 80 years and run that plan. The 40 year plan almost falls out of the 80 year plan.

Chair Romero-Wirth said the idea was that the 80 year plan will allow us to take advantage of the climate change modeling that goes out 80 years. We can pull the 40 year plan out of that for the requirements. We have not updated our 40 year plan in a long time.

Mr. Carpenter said it was updated a long time ago. It was twelve to thirteen years ago. We were due at that time for a 40 year plan. The State Engineer's Office

allowed us to use the permitting process in place as a surrogate of that. We have renegotiated a new well plan and the State Engineer will require us to have a 40 year plan now. This process is a catalyst for a 40 year plan that actually has some meat on it and the State will be pleased with that.

Mr. Roach said the Basin Study work would be useful in checking that box. This is a more formalized approach to incorporate public input at each step.

Mr. Schmelling said this group went the route of public workshops in developing the 5 year plan. Christine can give you a lot of insight in how to do that. You want to be proactive in trying to solicit input from different groups so you have a cross section of the public. If you can think about who you want to be at these meetings and encourage them to be there it would help.

Mr. Coombe said with population scenarios that is a major thing in itself. Is not the city already engaged in doing that sort of thing. We heard from Land Use that those things were in their big plan. If that were developed, this group could work with that. That is out there and happening.

Mr. Roach said he would love to take advantage of everything Land Use is doing.

Chair Romero-Wirth said she doesn't think the overall vision of Land Use has changed with the loss of Carol Johnson.

Mr. Coombe said it is possible to do it and gear up enough expertise to do it.

Mr. Roach said he hopes Land Use and water can work together on the growth piece. We can tag into that.

Mr. Roach said in your packet is a graph of the ENSO outlook. There was some data presented at PUC a couple of months ago where we provided an outlook. An ENSO outlook. The Committee asked what that meant. He looked at it and put together a graph that shows the oceanic Nino index.

Mr. Roach reviewed the graph information and said the strongest correlation he found shows for the three months that start years and March through June the inflow to McClure. If you compare that there is a bit of a trend and you can say with a straight face when El Nino conditions exist at the beginning of the year you have a 75% chance of above average inflows. When it is El Nina conditions you have a 75% chance of lower average inflows.

Mr. Coombe said this is very cool. The trend is pretty clear. Can you do a regression on this.

Mr. Roach said you probably could. He did linear feet on Excel.

Mr. Schmelling said this is impressive. Is there any data point on how El Nino and El Nina are trending over the years.

Mr. Roach said that data exists, but he doesn't have an answer to that. This is based on the surface temperature of the ocean. Five degrees up is El Nino, five degrees down is El Nina. In a stationary climate this is what you can expect. Now we have climate change and have to be careful in assumptions with the changes.

Mr. Schmelling said this is a lot easier to understand than a global climate model.

Mr. Jacobi said 2006 and 2018 are 12 year periods. Where does that period fit in.

Mr. Roach said he just pulled out the lowest three and the edges and recent ones back to 1966.

Mr. Coombe asked do you know what the uncertainty is like in the Oceanic Nino Index.

Mr. Roach said there is uncertainty in predicting it. It is based on surface temperature measurements.

Mr. Roach said thank you for your interest.

Chair Romero-Wirth said the final box of your presentation will help us segway into our goals discussions.

Mr. Roach said the fourth topic is where efforts of this group would be of value to the Water Division. Those would be demand scenarios, drought management with WPAC, domestic wells and City of Santa Fe turf irrigation efficiency.

Mr. Roach said on domestic wells, there are approximately 800 within the City limits. 30 of them have been permitted and drilled post the Domestic Well Ordinance.

Mr. Erdmann said the domestic well licensing program is something the City fought for in the Supreme Court. Shortly after winning that the State negotiated limiting them to the sale level we were going to do.

Mr. Roach said there is a provision that those wells have to be metered and they have to turn in monthly readings. There is maybe one who does that. There is no real enforcement mechanism. That is what we are trying to get a handle on here. From the Water Division's perspective we are interested in knowing what is happening in the aquifer. We are not necessarily interested in shutting them down. It is for management of groundwater more intelligently. How can we get our new meters that are real time, on these wells. We could offer water quality sampling to them. That would be

interesting to us and maybe a few homeowners. These are just questions for now. How can we get more monitoring on the wells in the City and requiring the water metering. We are thinking about those kind of things. Before we point any fingers at the County and their wells we need to handle our own wells.

Ms. Wright asked if the County is able to get meters on domestic wells.

Mr. Erdmann said they have a requirement that if the property is going to be subdivided the wells are required to be metered, such as La Cienega. They are not successful in enforcing that.

Ms. Wright asked what would prevent us from requiring that.

Mr. Erdmann said Bernalillo County did a program where instead of starting with a draconian piece they started with a voluntary program. They were able to get a fair number of wells that way.

Mr. Roach said voluntary is a good place to start. What percent of the wells did they get.

Mr. Erdmann said he can get that information.

Mr. Roach said the energies of this group may take a bite out of that.

Mr. Roach said turf irrigation is about what does the City use on MRC and our parks and how does that compare to other places like private entities. How can we do better with that. The Acequia Madre runs along Patrick Smith Park. Why not look for water rights and grow grass and crops in Patrick Smith Park. Lets look at how the City of Santa Fe uses water, potable and non potable, and make sure we are doing the best job we can. If we want to look at scenarios of indoor versus outdoor the ways to reuse becomes a big deal.

Mr. Jacobi asked how many homes in Santa Fe are on septic systems. How do you consider septic drainage water.

Mr. Roach said he did not know that number.

Mr. Jacobi asked what happens with San Juan/Chama water when it is not available.

Mr. Roach said if there was a year with very little San Juan/Chama water you would get less credit for returns and exchanges.

Mr. Otto said you said water on outdoor plants is a loss to the system. Can you do water mapping and make that part of the model.

Mr. Roach said groundwater mapping. You can measure gravity every year and the change to gravity is the result of the change in mass and that is dominated by groundwater. They have maps that show the groundwater change. USGS has gravity scenarios and could measure once a year for a time and could see the trends of gravity changes. He would love to have a better sense of what the aquifer is doing within the City limits especially under the river.

Chair Romero-Wirth said thank you so much. This is very interesting. There is lots to discuss.

ACTION ITEMS

7. APPROVAL OF 2020 SCORECARD

Ms. Chavez said the final 2020 Scorecard is in the meeting packet. We have fine tuned it. Staff also aligned their position with the scorecard and are already jumping in. Andrew recently got GIS on his computer and will do data collection on all our programs. We will give you quarterly reports as to our progress.

Ms. Chavez said the 5 Year Plan will go to Council as an informational item in February. We have developed monthly topics that we will focus on for radio shows and social media.

Ms. Kirby said good job.

Ms. Chavez said Patricio has been promoted into a position in water resources under Rick Carpenter. It is a huge loss for us, but good for Patricio.

MOTION A motion was made by Mr. Coombe, seconded by Mr. Bunton, to approve the 2020 Scorecard.

VOTE The motion was approved unanimously by voice vote.

8. ROUNDTABLE DISCUSSION ON COMMITTEE GOALS FOR 2020

Chair Romero-Wirth said with all this food for thought she wanted us to think about what you would like to focus on. In her conversation with Christine she can support this subcommittee work in one to three topic areas depending on what they are.

Ms. Chavez said some may be quick and some are longer.

Chair Romero-Wirth said one quick one she wants to do is to loop back with

Scott of governance for this Committee. We need a group to work on that. She is volunteering herself and Scott and maybe we could have one or two other people. We will work through and pick a path and do something or not do something. That will take not more than two meetings. Then we will bring it to the Committee for consensus.

Chair Romero-Wirth said lets have a conversation about this. Reese and Peggy are there things that jump out to you in your work that you wonder what the City does on this or that.

Ms. Wright said the public feedback aspect is of interest to her. A huge part of the population will never show up to those meetings and we as landscape practitioners do interact with them. We could talk with them about issues from a conversation aspect. It seems like that is the only way to access those people .

Ms. Chavez said it is a huge struggle for us.

Ms. Wright said maybe there is some way for those of us who do have contact with them to interact with them to get feedback that we need.

Mr. Baker said we used to do monthly meetings, but are no longer having those. We could send invitations via email to all our clients if you have a concise simple invite.

Ms. Chavez said it would be great to brainstorm that with you guys. We need that expertise. We were approached by Melissa McDonald to be a partner in an LID stormwater project in the Nava Ade neighborhood. She would love to discuss with this group our rebates for gardens and pumice rebates. We update our rebates in April.

Mr. Baker and Mr. Schmelling volunteered for that subcommittee.

Mr. Schmelling said he wonders about the rebate program more generally. Is it working as envisioned.

Ms. Chavez said that can be part of the same group.

Ms. Wright volunteered to be part of the subcommittee as well.

Mr. Coombe said there are four areas he thought would be interesting based on the attainable element and that fit with the plan and the scorecard. First is the neighborhood pilot project. He can imagine a subcommittee working on that and the elements of that. There can be a subcommittee focused on how the Conservation Office approaches that project plan. The second one is data management. There could be much greater use of the data available, particularly out of the Badger meters. There could be a subcommittee thinking about what kind of data we want to extract and how to use it. Third would be the ICI pilot projects such as hotels and restaurants and those kind of things, in order to continue the momentum. Fourth is outdoor irrigation in

general. He thinks that will become a more important element of GPCD reduction in the City. There are people on the Committee with expertise in that area now.

Ms. Chavez said great. Thanks for aligning with the scorecard.

Mr. Coombe said he is not much about rebates. He doesn't think they make that much difference.

Ms. Chavez said for this year we want to jump on Nava Ade and try to push rain water collection and other elements.

Mr. Coombe said the subcommittee he spoke about could be the liaison for the group there.

Chair Romero-Wirth asked how do we decide.

Mr. Erdmann suggested a subcommittee to look at the Water Fiesta and do some visioning about the goal and what we are trying to accomplish with that. The event is going on 20 years now.

Chair Romero-Wirth said another thing to think about is subcommittees around a particular thing. She thinks we can use the Committee's time on ideas and could spend a meeting talking about the Water Fiesta and brainstorming on that. That one seems like something we could do in one meeting of the Committee.

Ms. Chavez said the subcommittee meetings will all be reported back to this group. On the Water Fiesta she would like to expand that to our education program in general.

Mr. Coombe suggested that for that the position needs to be filled. There needs to be someone in the lead and driving the process. The Committee cannot do that.

Chair Romero-Wirth asked what is the status of the vacancies and the timing.

Ms. Chavez said we posted the Education Compliance position and did not get the skill set we needed. We changed the job description and that has been stuck in HR for seven months.

Chair Romero-Wirth said every department is reorganizing. There are issues and workload management issues. They are aware of it and are dealing with it.

Ms. Chavez said we have been a year without the position. Jesse is meeting with HR and hopefully will get it going. With Patricio's position, he is starting two weeks from yesterday. We are posting the position now. We have two vacancies.

Chair Romero-Wirth asked have you spoken to the Community College.

Ms. Chavez said no, but that is a good idea.

Chair Romero-Wirth said she will check with HR and she did mention it to the Mayor.

Chair Romero-Wirth said as to how long subcommittees last, that would be subject to what we ask the subcommittee to do.

Mr. Schmelling said outdoor irrigation needs to be done by April and ICI and data need to push out a bit.

Chair Romero-Wirth said it makes sense to do the education piece when that person is on board.

Mr. Bunton asked from the Chair's position do you see anything beyond joint meetings that could be done and be more concrete.

Chair Romero-Wirth said the drought management piece. She will be meeting with Commissioner Hamilton on Friday and we will have an internal meeting with City and County staff to structure that discussion. We will be doing a joint meeting with the County by March, hopefully.

Mr. Coombe said we have talked about domestic wells for two years and have not figured out how to approach it.

Mr. Bunton said it has to be approached politically.

Mr. Coombe said through persuasion and enforcement.

Mr. Bunton asked could we assemble some sort of proposal for the City Council.

Mr. Coombe said maybe so. What is the point of leverage.

Chair Romero-Wirth said we could spend some Committee time looking at what we know and see if generates any thinking.

Mr. Bunton said the first step is monitoring.

Chair Romero-Wirth said it goes back to Jesse's point about how to approach people about monitoring.

Mr. Bunton said maybe we could propose a two step process with what Bernalillo County did and see where that takes us. It could take two or three years. It seems that

would be very worthwhile and an achievable starting point.

Chair Romero-Wirth said it would be helpful if a small group of people looked at what other communities do and how we can formulate a policy that can be talked about.

Ms. Chavez said the Water Division is talking about domestic wells.

Mr. Coombe asked to what end would we do this. Is it about evaluating the potential of ASR. Is it about water quality or groundwater being put through the sewer system to keep things moving. If we only have leverage over City limit wells what does that do for demand. It is not clear.

Chair Romero-Wirth said we could have a conversation at the joint meeting as well.

Mr. Erdmann said from a County perspective and State one reason there is some reticence is that we hope that the State will tackle it. It is a problem all over the state.

Mr. Bunton said maybe the Committee could make the recommendation to the Governing Body to request that the State step in and do this. That is feasible and would have an impact.

Chair Romero-Wirth said we have not really zeroed in on anything other than governance. Send her a email if you have any ideas.

Chair Romero-Wirth said we have an issue with the next meeting in terms of time. Can everyone do 3:00 pm to 5:00 PM on February 11th.

Everyone was okay with the time change.

9. MATTERS FROM THE PUBLIC

Mr. Dickinson said he was at this meeting in October and shared with you that the water pressure in his apartment is 100 pounds. He could turn on everything and not have a drop in water pressure. There are 120 units there. After three months they brought his water heater up to code and now there is a water reducer on the water heater. His water usage dropped by more than 30%. If you want to save water start with apartment complexes that don't have reducing valves and educate them about saving money in the long run.

The Committee members thanked Mr. Dickinson for the information.

10. MATTERS FROM STAFF

Mr. Pacheco said the domestic well issue is going to be huge. He is part of the Aamodt Study. In October the Federal court mandated monitoring wells in that area. He just went to a meeting in Pojoaque and there are still hundreds of people not monitoring wells even though it is mandated.

11. MATTERS FROM COMMITTEE

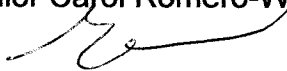
None

**12. NEXT MEETING
TUESDAY, FEBRUARY 11, 2020**

13. ADJOURN

There being no further business before the Committee the meeting adjourned at 6:00 pm.

Councilor Carol Romero-Wirth, Chair



Elizabeth Martin, Stenographer



Long Range Water Resource Planning

A sneak peak at Water Division ideas for a scientifically based, community informed water resources planning cycle

January 14, 2020

Jesse Roach
jdroach@santafenm.gov
505 955-4309

2020 – 2024 Planning Cycle



Long Range Planning

- Overall Goal: A science based, community informed planning process that leads to specific outcomes needed by the Water Division.
- Desired Outcomes
 1. Planning Approach
 2. Scenario Development
 - Supply Scenarios
 - Demand Scenarios
 3. Preferred Projects and Initiatives
 4. 40 and 80 Year Water Plans

Exhibit "1"

2020 – 2024 Planning Cycle



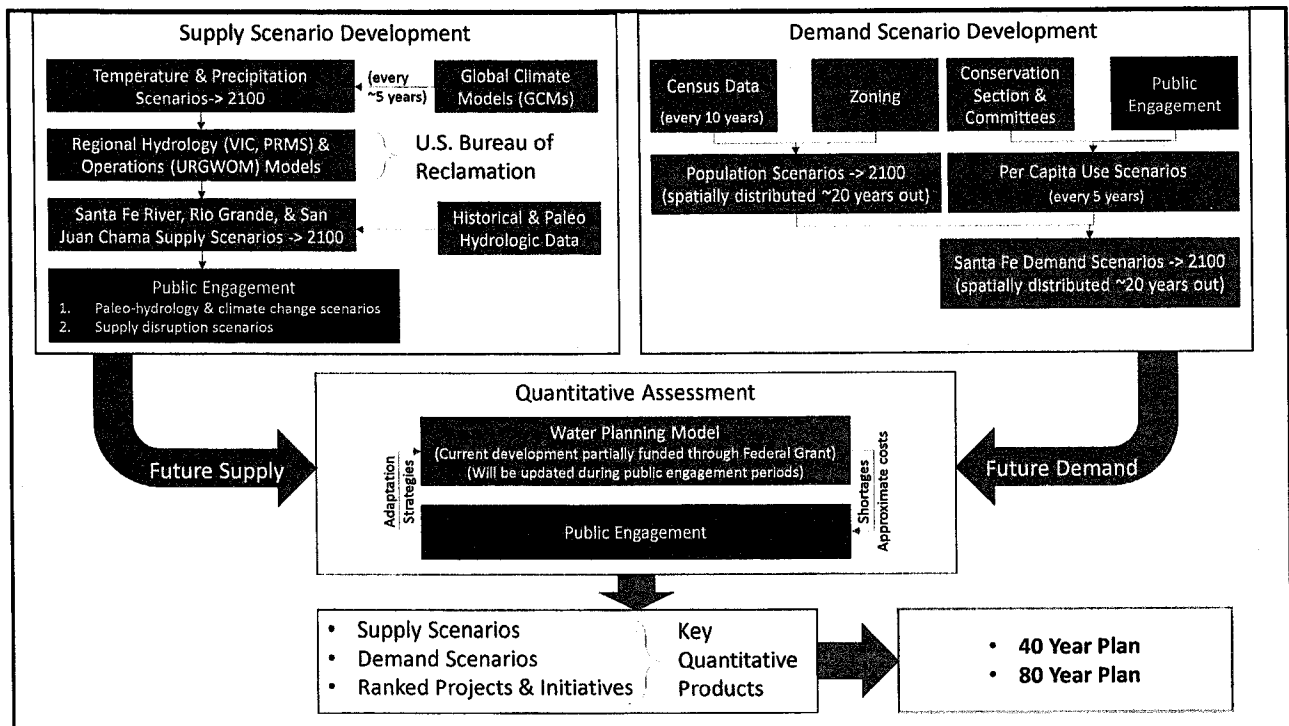
Proposed Cycle

1. 2020: Define the planning process to achieve given objectives
2. 2021: Define scenarios
3. 2022: Evaluate shortages
4. 2023: Develop and rank adaptation strategies
5. 2024: Complete 40 and 80 year plans
6. Evaluate what worked and what didn't

1/14/2020

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Proposed Schedule

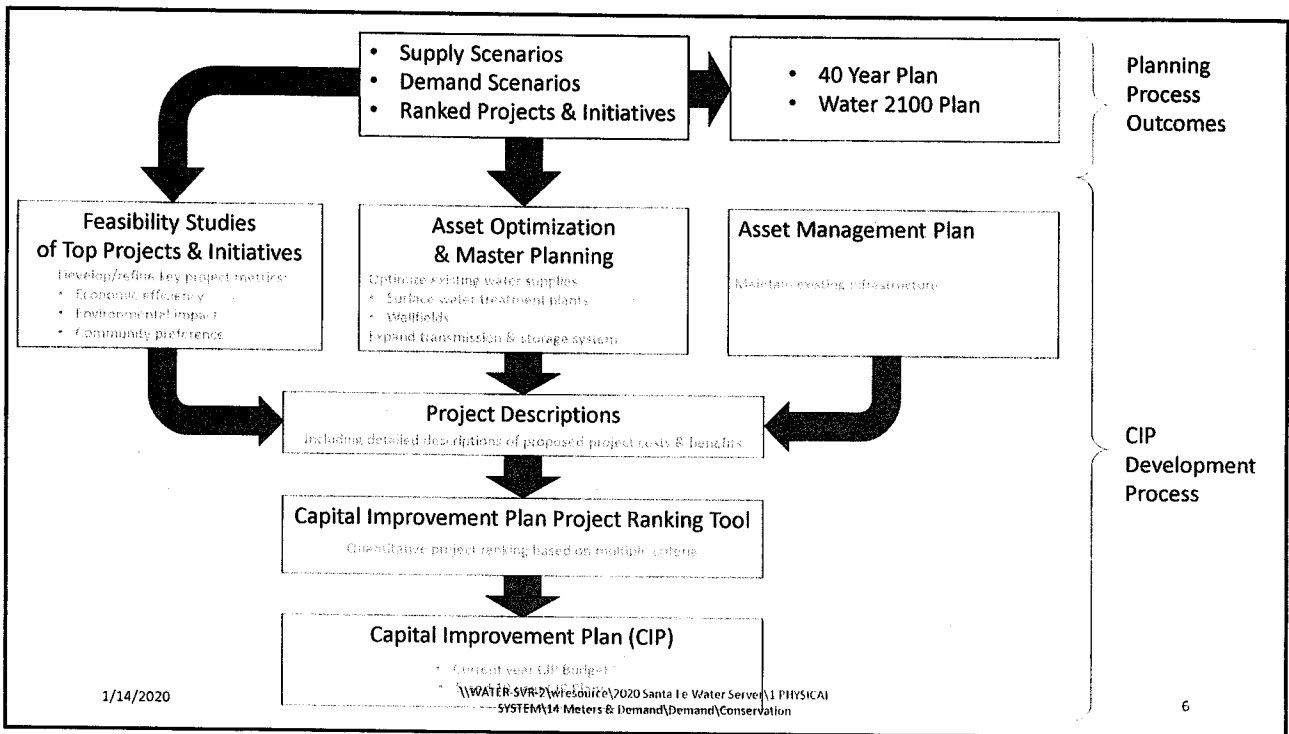


Year	Spring – Early Summer	Late Summer	Early Fall	Late Fall
2020		Draft 5 Year Planning Process	Public Comment	Draft 5 Year Planning Process
2021		Draft Supply and Demand Scenarios	Public Comment	Draft Supply and Demand Scenarios
2022				Draft Feasible Projects
2023		Draft Feasible Projects ranked w triple bottom line	Public Comment	Draft Feasible Projects ranked w triple bottom line
2024		Draft Water Plans	Public Comment	Draft Water Plans

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6

Ideas of Potential Interest to WCC



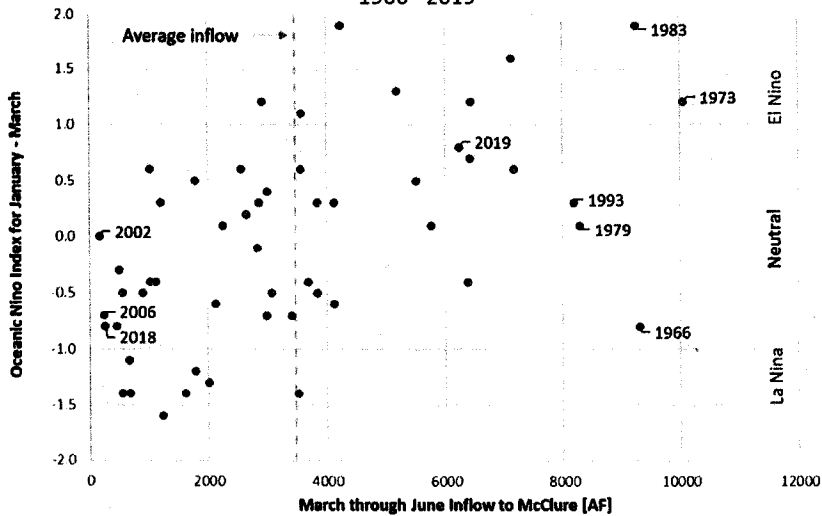
- Demand Scenarios
- Drought Management (with WPAC)
- Domestic Wells
- City of Santa Fe Turf Irrigation Efficiency

1/14/2020

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7

Oceanic Nino Index Correlation to Santa Fe River Snowmelt Runoff
1966 - 2019



In 75% (12 of 16) of years with El Niño conditions Jan - Mar there was above average runoff Mar - Jun.
 In 59% (10 of 17) of years with Neutral conditions in Jan - Mar there was below average runoff Mar - Jun.
 In 80% (16 of 20) of years with La Niña conditions in Jan - Mar there was below average runoff Mar - Jun.

1/14/2020

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8

