



Agenda

CITY CLERK'S OFFICE

DATE 3/29/17 TIME 1:40 pm

SERVED BY Shirley Hopper

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**PUBLIC UTILITIES COMMITTEE
TOUR AND MEETING
WEDNESDAY, APRIL 5, 2017
Sangre de Cristo Water Division Building
Transmission & Distribution Section
801 W. San Mateo
Regular Meeting – 4:00pm**

1. CALL TO ORDER
2. ROLL CALL
3. APPROVAL OF AGENDA
4. APPROVAL OF CONSENT AGENDA
5. APPROVAL OF MINUTES FROM THE MARCH 1, 2017 PUC MEETING

INFORMATIONAL ITEMS

6. Monthly Update of Capital Projects. (Nick Schiavo)
7. Environmental Services Division Update. (Shirlene Sitton) **VERBAL**
8. Draft Source Water Protection Plan. (Alex Puglisi and Kelly Baker of Daniel B. Stephens) **15 Min.**

CONSENT – ACTION CALENDAR

9. Update on Current Water Supply Status. (Alex Puglisi)
10. Wastewater Management Division Monthly Update. (Shannon Jones)
11. Request for approval of utilizing State of New Mexico Agreement for Sale and Purchase of Natural Gas, Price Agreement No. 50-000-15-00049 between the State of New Mexico and Continuum Retail Energy Services, LLC. (Nick Schiavo)

Public Utilities Committee – 4/5/2017

Finance Committee – 4/17/2017
City Council – 4/26/2017

12. Request for approval of Award of Bid # '17/19/B to Sasquatch, Inc. for the City of Santa Fe Wastewater Management Division Sanitary Sewer Line Rehabilitation Project – CIP # 951 for the total of amount of \$877,287.93 inclusive of NMGRT. (Stan Holland)

Public Utilities Committee – 4/5/2017
Finance Committee – 4/17/2017
City Council – 4/26/2017

13. Request for approval of Change Order No. 1 to the contract (Bid# '17/19/B) with Sasquatch, Inc. for the City of Santa Fe Wastewater Management Division Sanitary Sewer Line Rehabilitation Project – CIP# 951 for the total amount of \$350,000.00 inclusive of NMGRT. (Stan Holland)

Public Utilities Committee – 4/5/2017
Finance Committee – 4/17/2017
City Council – 4/26/2017

14. Request for approval of a Budget Adjustment Request (BAR) to move \$100,000 from BU/LI 52300.561200 Water Division's Capital Improvements Plan budget to BU/LI 22232.571000 Fire Department's Vehicles Over 1.5 Tons for the Fire Department to purchase a Type III Urban Interface Pumper Truck. (Chief Erik Litzenberg)

Public Utilities Committee – 4/5/2017
Finance Committee – 4/17/2017
City Council – 4/26/2017

15. Request approval of Change Order No. 2 to the Contract Item # 16-0341 with AUI Constructors in the amount of \$96,033.94 for the Hospital Tank Construction Project. (Kristen Johansen).

a. Budget Adjustment Request for the amount of \$344,574.68.

Public Utilities Committee – 4/5/2017
Finance Committee – 4/17/2017
City Council – 4/26/2017

16. Request for approval for the purchase of five-hundred eighty (580) 96-Gallon residential refuse carts from Cascade Engineering, via the National Joint Power Alliance Cooperative Purchasing Agreement for the total amount of \$28,292.60. (Adam Schlachter)

Public Utilities Committee – 4/5/2017

Finance Committee – 4/17/2017
City Council – 4/26/2017

17. Request for approval of an Exempt Procurement Purchase through Waukesha-Pearce Industries, Inc. for a complete set of internal components needed to rebuild the natural gas powered pump located at Buckman Booster #2 for the total amount of \$84,791.56 inclusive of NMGR. (Jonathan Montoya)

Public Utilities Committee – 4/5/2017
Finance Committee – 4/17/2017
City Council – 4/26/2017

MATTERS FROM THE PUBLIC

MATTERS FROM THE CITY ATTORNEY

MATTERS FROM STAFF

MATTERS FROM THE COMMITTEE

NEXT MEETING: Wednesday, May 3, 2017

ADJOURN



**SUMMARY OF ACTION
PUBLIC UTILITIES COMMITTEE TOUR AND MEETING
SANGRE DE CRISTO WATER DIVISION BUILDING
801 W. SAN MATEO
WEDNESDAY, APRIL 5, 2017, 4:00 PM**

<u>ITEM</u>	<u>ACTION</u>	<u>PAGE</u>
CALL TO ORDER		1
ROLL CALL	QUORUM	1
APPROVAL OF AGENDA	APPROVED	1
APPROVAL OF CONSENT AGENDA	APPROVED (amended)	2
APPROVAL OF MINUTES FROM March 1, 2017	APPROVED	2
<u>INFORMATIONAL ITEMS</u>		
MONTHLY UPDATE OF CAPITAL PROJECTS	INFORMATION/DISCUSSION	2
ENVIRONMENTAL SERVICES DIVISION UPDATE	INFORMATION/DISCUSSION	2-5
DRAFT SOURCE WATER PROTECTION PLAN	INFORMATION/DISCUSSION	5-7
<u>CONSENT ACTION CALENDAR</u>		7-8
<u>CONSENT DISCUSSION ITEMS</u>		
12. REQUEST FOR APPROVAL OF CHANGE ORDER 31 TO THE CONTRACT (BID# '17/19/B) WITH SASQUATCH, INC. FOR THE CITY OF SANTA FE WASTEWATER MANAGEMENT DIVISION SANITARY SEWER LINE REHABILITATION PROJECT - CIP# 951 FOR THE TOTAL AMOUNT OF \$350,000.00 INCLUSIVE	APPROVED	8-9

OF NMGR.

15	REQUEST FOR APPROVAL OF CHANGE ORDER #2 TO THE CONTRACT ITEM# 16-0341 WITH AUI CONSTRUCTORS IN THE AMOUNT OF \$96,033.94 FOR T HE HOSPITAL TANK CONSTRUCTION PROJECT.	APPROVED	9-11
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BUDGET ADJUSTMENT
REQUEST FOR THE AMOUNT
OF \$344,574.68.

MATTERS FROM THE PUBLIC	NONE	11
MATTERS FROM THE CITY ATTORNEY	NONE	11
MATTERS FROM STAFF	NONE	11
MATTERS FROM THE COMMITTEE	NONE	11
NEXT MEETING	WEDNESDAY, MAY 3, 2017	11
ADJOURN	ADJOURNED	11

**PUBLIC UTILITIES COMMITTEE TOUR AND MEETING
SANGRE DE CRISTO WATER DIVISION BUILDING
801 W. SAN MATEO
WEDNESDAY, APRIL 5, 2017, 4:00 PM**

1. CALL TO ORDER

The meeting of the Public Utilities Committee was called to order at by Councilor Christopher Rivera, Chair, at 4:30 pm, on Wednesday, April 5, 2017, at the Sangre de Cristo Water Division Building, 801 W. San Mateo, Santa Fe, New Mexico.

2. ROLL CALL

MEMBERS PRESENT

Councilor Christopher M. Rivera, Chair
Councilor Signe Lindell
Councilor Joseph M. Maestas
Councilor Ronald S. Trujillo
Councilor Renee D. Villarreal

MEMBERS ABSENT

OTHERS PRESENT

Nick Schiavo, Public Utilities Director
Stephanie Lopez, Public Utilities
Marcos Martinez, Assistant City Attorney
Shannon Jones, Public Utilities
Shirlene Sitton, Environmental Services
Kristen Johansen, Public Utilities
Alan Hook, Public Utilities
Alex Puglisi, Public Utilities
Jan Snyder, Public Utilities
Stan Holland, Public Utilities
Kelly Baker, Daniel B. Stevens Engineering Firm
Danielle Shurn, NM Environment Department
Elizabeth Martin, Stenographer

3. APPROVAL OF AGENDA

MOTION A motion was made by Councilor Trujillo, seconded by Councilor Lindell, to approve the agenda as presented.

VOTE The motion passed unanimously by voice vote.

4. APPROVAL OF CONSENT AGENDA

Councilor Lindell pulled items 12 and 15 for discussion.

Councilor Maestas pulled item 15 for discussion as well.

MOTION A motion was made by Councilor Trujillo, seconded by Councilor Maestas, to approve the Consent Agenda as amended.

VOTE The motion passed unanimously by voice vote.

5. APPROVAL OF MINUTES FROM March 1, 2017

MOTION A motion was made by Councilor Lindell, seconded by Councilor Villarreal, to approve the minutes as presented.

VOTE The motion passed unanimously by voice vote.

INFORMATIONAL ITEMS

6. MONTHLY UPDATE OF CAPITAL PROJECTS

Mr. Jones reported that the hospital tank is moving forward. His report is included in the meeting packet. He reviewed his report.

Chair Rivera asked regarding the funds toward the purchase of the fire truck, are those coming from the Water Company.

Mr. Jones said we are taking a proactive approach on protecting our watershed and partnering with people who would respond to an event. This was an opportunity to partner with the Fire Department. The funding for this comes from the line item for watershed protection.

7. ENVIRONMENTAL SERVICES DIVISION UPDATE

Ms. Sitton said the recent citizen survey showed garbage collection rated at # 2 for the City services. # 1 was the Fire Department. We are proud of that. Recycling is at 67%. That was the old program. 92% reported they recycle at home. We are still doing some tail end cleanup on the recycling roll out. We have had some challenges. She does not have the final numbers yet. We ordered 29,300 carts for distribution and

have now ordered additional carts bringing the total to 32,000. In the beginning it was evident that there was missing data for getting to all the addresses. We worked with billing and information technologies and ran different reports to enable us to have a much better success rate. We are still missing some information on subdivided units and are working on that. We think we have done good job. She is only aware of one phone call for a cart.

Councilor Villarreal said there are some areas where people do not live there full time. How do we address that issue of carts on the street.

Ms. Sitton said she will get to that issue a bit further into her report.

Ms. Sitton said we were short of carts and have another 3,000 carts coming. Where there are subdivided units they had delivered one cart and then delivered it again.

Chair Trujillo said he has gotten calls from Monte Rey and San Juan where they left 2 carts. You may have some residents that think they are supposed to have 2 carts.

Ms. Sitton said she worked with billing and IT to develop a message for robo calls that started today explaining that homes receive one cart. We are now working to collect the extra carts and have recovered most of them.

Councilor Maestas said he got 2 carts. He was outside when staff was picking up carts. They took the new one and not the first one.

Ms. Sitton said there are tags associated with an address. The sub contractor is told what cart to collect. That is the one they collected.

We have been able to work within the contract to address the issues. If we don't have enough money for the second distribution we will look at options. We are hoping we can cover everything within the current contract.

Councilor Maestas asked do we have the same reserve policy for the carts regarding the percentage we want as backup. We are less likely to have theft with the IDs on the carts.

Ms. Sitton said the recycling carts are newer. We assume a few will be broken. Right now we are just trying to meet the levels we need and will work over the next few months to manage the number of carts we have in inventory.

Ms. Sitton said she wants to recognize how hard everyone on her staff has worked to make this happen. The recycling crews are shining stars. Customer staff as well. They number of daily calls they get went from 200 calls to 800 calls with the roll

out. She also gave a shout out to Manuel Sanchez, Eva Romero and Nick who have done an amazing job. For the food drive we had over 40 volunteers from the Food Depot who helped stuff the bags for the carts. Steven Almazar did an amazing job keeping all that going. The Food Depot volunteers were great. The Food Depot reported that they are getting food from the bags.

Ms. Sitton said we have had no issues or problems with the sites other than the one we had to move. We have collected 10,441 pounds of glass from the drop off sites.

Councilor Trujillo asked where is that site located now.

Ms. Sitton said to the parking lot between the ballfield and the tennis courts.

Councilor Trujillo said his concern is that certain people bark and the City bends. Also the disparity between the East side and the South side. That is his opinion and comment.

Mr. Schiavo said we actually could have done a better job getting the word out to the community first. That is one of the reasons we were so willing to move quickly.

Councilor Trujillo said the only thing he saw was a broken basketball court and that is the Parks Department responsibility. He is not faulting staff at all.

Chair Rivera asked did we look at sites in the Southeast part of town.

Ms. Sitton said we looked at all City owned property. That is where we started. She is happy to look at additional sites. We have done the research and we have more drop off sites per square mile than any other city. Residents are never more than 3 miles from a drop off site. She is happy to take suggestions and work with anyone on this.

Chair Rivera said what about other sites along the Cerrillos corridor. Look at something in the Southeast part of town. Also what about the of commingling trash. Have we seen glass in the regular recycling bins.

Ms. Sitton said she is not sure we have pulled those numbers yet. Give us a bit more time and we will have that information for you.

Councilor Lindell asked how many drop off stations are there.

Ms. Sitton said 4. At our Silar Road offices, on the southside off Airport Road, BuRRT and Morales Road.

Councilor Lindell said when we are looking for additional sites she suggests we check those sites for how they sit with residents. She spent some time at the sites and

dropping off glass is loud. She was surprised at how loud. Consideration for people who can hear that is something to be aware of.

Ms. Sitton said it was a miscalculation on Morales Road. The others are well away from residential areas.

Ms. Sitton said we are excited about the Rubicon pilot program that is getting started. Their representative is here today and doing training. This system will give us some data we need. We also want to remind you that April 22nd is Earth Day and Keep Santa Fe Beautiful Clean Up Day. All the information is on our website.

8. DRAFT SOURCE WATER PROTECTION PLAN

Mr. Puglisi said we have Jennifer Hill and Kelly Baker here to do the plan presentation. We have been working with them and they are working with BDD as well and the County of Santa Fe. The purpose of this plan is to protect our source waters and is called for by EPA. The last plan was done in 2001 and needs updating. He wanted to thank the EPA for providing funding for this plan.

Ms. Baker presented a slide presentation. Her presentation in hard copy is herewith attached to these minutes as Exhibit "1".

Questions from members were as follows:

Councilor Maestas asked do you look at tributaries that flow into the Rio Grande.

Ms. Baker said we are doing a separate plan for Buckman. We met with Buckman and have not done the tributaries yet. They talked to us about including several of them and we are looking at that.

Councilor Maestas asked on storm water do you guys look at potential storm water mitigation.

Ms. Baker said that has not been discussed at this point but it is something we can look into.

Councilor Maestas asked have we identified where storm water may be a contaminant.

Ms. Hill said no we have not.

Mr. Puglisi said the Santa Fe River is listed as impaired for E. coli due to storm water. We are working with EPA to address the impairment. We will have to address

this as part of our permit process. We will team up with Santa Fe County and the Department of Transportation to be co-permittees. Right now he is working with the River Manager and Public Works to address the E. coli and we are thinking about doing a source tracking study to see where it is coming from. It could be animal, human, avian or other sources.

Councilor Maestas said he just wants to be sure we have coordination with Storm Water Management. Maybe consolidate outfalls and discharge elsewhere. We also have been put on notice by the Acequias Association that we are contaminating the acequias. They want us to start looking at that. He realizes that our options are limited.

Mr. Puglisi said River Manager and Storm Water will be part of the stakeholder team. Alan Hook and the County will be part of it as well. If you have input of who you would like to see included please let him know.

Councilor Maestas said he suggests an acequia representative.

Mr. Puglisi said we will do that. The representative will most likely be from Acequia Madre.

Councilor Lindell said she and Mr. Holland have had opportunity to stand by the river and talk about the septic systems that border the river. Will that be identified.

Ms. Baker said we are looking to find information on that for the final plan.

Councilor Maestas asked will we be identifying potential sources of contamination by the river. If septic systems are in that buffer we should identify those sources.

Ms. Baker said that is data we don't have that we would like to have.

Councilor Lindell said it is important that we try to identify that. It is necessary. Some of those septic systems sit right on the river.

Mr. Puglisi said some of the studies we are doing include that and address future needs. If we see a high number of E. coli related to human waste we will know septic systems are leeching into the river. The study will help us focus. A lot of people have hooked up to the sewer and the septic tanks are not used any longer. We are looking at that in the study.

Councilor Maestas said we need to identify those septic systems that serve properties that are within a certain number of feet from our water sources. We need some policy considerations as well to get these folks to hook up.

Mr. Puglisi said part of the plan is to identify policies and procedures that involve our source water. We are concerned with possible contamination of ground water. We are trying to locate the septic systems for the river but also possible sources of contamination of ground water.

Chair Rivera said will this plan show the well fields that are already contaminated or just the possibility of future contamination.

Ms. Baker said we are mostly looking forward but the plan does not include how to address the wells.

Mr. Puglisi said we want to have Land Use and Planning involved in this in the future regarding land use codes. Also for the identification of existing sources and controls we may want to put on them.

Chair Rivera said thank you for your presentation. It is much appreciated.

CONSENT ACTION CALENDAR

- 9. UPDATE ON CURRENT WATER SUPPLY STATUS**
- 10. WASTEWATER MANAGEMENT DIVISION MONTHLY UPDATE**
- 11. REQUEST FOR APPROVAL OF UTILIZING STATE OF NEW MEXICO AGREEMENT FOR SALE AND PURCHASE OF NATURAL GAS, PRICE AGREEMENT NO. 50-000-15-00049 BETWEEN THE STATE OF NEW MEXICO AND CONTINUUM RETAIL ENERGY SERVICES, LLC.**
- 12. REQUEST FOR APPROVAL OF AWARD OF BID # '17/19/B TO SASQUATCH, INC. FOR THE CITY OF SANTA FE WASTEWATER MANAGEMENT DIVISION SANITARY SEWER LINE REHABILITATION PROJECT - CIP #951 FOR THE TOTAL AMOUNT OF \$877,287.93 INCLUSIVE OF NMGR.**
- 13. REQUEST FOR APPROVAL OF CHANGE ORDER NO 1 TO THE CONTRACT (BID# '17/19/B) WITH SASQUATCH, INC. FOR THE CITY OF SANTA FE WASTEWATER MANAGEMENT DIVISION SANITARY SEWER LINE REHABILITATION PROJECT - CIP# 951 FOR THE TOTAL AMOUNT OF \$350,000.00 INCLUSIVE OF NMGR.**
- 14. REQUEST FOR APPROVAL OF A BUDGET ADJUSTMENT REQUEST (BAR) TO MOVE \$100,000 FROM BU/LI 52300.561200 WATER DIVISION'S CAPITAL IMPROVEMENTS PLAN BUDGET TO BU/LI 22232.571000 FIRE DEPARTMENT'S VEHICLES OVER 1.5 TONS FOR THE FIRE DEPARTMENT TO PURCHASE A TYPE III URBAN INTERFACE PUMPER TRUCK.**

15. **REQUEST FOR APPROVAL OF CHANGE ORDER NO. 2 TO THE CONTRACT ITEM# 16-0341 WITH AUI CONSTRUCTORS IN THE AMOUNT OF \$96,033.94 FOR THE HOSPITAL TANK CONSTRUCTION PROJECT.**
 - A. **BUDGET ADJUSTMENT REQUEST FOR THE AMOUNT OF \$344,574.68.**
16. **REQUEST FOR APPROVAL FOR THE PURCHASE OF FIVE-HUNDRED EIGHTY (580) 96-GALLON RESIDENTIAL REFUSE CARTS FROM CASCADE ENGINEERING, VIA THE NATIONAL JOINT POWERS ALLIANCE COOPERATIVE PURCHASING AGREEMENT FOR THE TOTAL AMOUNT OF \$28,292.60.**
17. **REQUEST FOR APPROVAL OF AN EXEMPT PROCUREMENT PURCHASE THROUGH WAUKESHA-PEARCE INDUSTRIES, INC. FOR A COMPLETE SET OF INTERNAL COMPONENTS NEEDED TO REBUILD THE NATURAL GAS POWERED PUMP LOCATED AT BUCKMAN BOOSTER #2 FOR THE TOTAL AMOUNT OF \$84,791.56 INCLUSIVE OF NMGR.**

DISCUSSION OF CONSENT ITEMS

12. **REQUEST FOR APPROVAL OF AWARD OF BID # '17/19/B TO SASQUATCH, INC. FOR THE CITY OF SANTA FE WASTEWATER MANAGEMENT DIVISION SANITARY SEWER LINE REHABILITATION PROJECT - CIP #951 FOR THE TOTAL AMOUNT OF \$877,287.93 INCLUSIVE OF NMGR.**

Councilor Lindell said on page 17 of the packet, item B is the Subcontractors Listing if applicable. She did not see some of the attachments. Is there an attachment B.

Mr. Holland said there is a separate list that was not included in the bid schedule itself. There was a list provided but it is not part of this.

Councilor Lindell asked are the subcontractors local.

Mr. Holland said they are out of Colorado.

Councilor Lindell said this is an on going issue of local contractors given bidder preference and using out of state subs. That is something that needs to be addressed by us. It makes no sense to her to give preference to hire out of state contractors.

Councilor Maestas asked Mr. Martinez if the New Mexico Contractor is prime and the subs are from out of state does the GRT for the project go to New Mexico.

Mr. Martinez said yes.

Councilor Maestas said the real issue is the discounting of points in scoring.

Councilor Lindell said and money.

Councilor Trujillo asked is Sasquatch, Inc. from Santa Fe or Albuquerque.

Mr. Holland said they have an office in town. Their parent company is from Albuquerque he thinks.

Chair Rivera asked you are following the procurement process right. These changes would have to be done to the procurement policy.

Mr. Holland said yes, by the book. Sasquatch was a local contractor. The other bidder was from Colorado.

Chair Rivera asked those were the only 2 companies who bid.

Mr. Holland said yes.

MOTION A motion was made by Councilor Maestas, seconded by Councilor Trujillo, to approve item 12.

VOTE The motion passed unanimously by voice vote.

15. REQUEST FOR APPROVAL OF CHANGE ORDER NO. 2 TO THE CONTRACT ITEM# 16-0341 WITH AUI CONSTRUCTORS IN THE AMOUNT OF \$96,033.94 FOR THE HOSPITAL TANK CONSTRUCTION PROJECT.

A. BUDGET ADJUSTMENT REQUEST FOR THE AMOUNT OF \$344,574.68.

Councilor Maestas stated that he just started employment with Souder Miller and Associates, a local private engineering firm. They are involved in this project but are not the source of the change order. He will recuse himself from this vote. The City Attorney advised him to get the Company to craft a letter to insulate him from any City matters involving Souder Miller and Associates.

Councilor Maestas left the meeting.

Mr. Jones said he would like to thank Randy Lopez for allowing us to intrude in

your world and staying with us for the meeting and thank you Mr. Hood for the pastries.

Councilor Lindell said she would like them to address why we need this. This is the project that never goes away. We have dumped insane amounts of money into this and it never stops.

Ms. Johansen said there definitely have been issues with the construction of this project. The end date has been extended to July. The sub grade was wet due to run off. We had to dry that before pouring concrete. The concrete delivered came in with a high slump to it and was a different texture every time it was delivered. The building of the first wall was not a success. The forms broke at 15 feet in mid pour. The 4th wall concrete came in with a high slump to it. We had to remove that wall as well.

Councilor Trujillo asked who took the cost.

Ms. Johansen said the contractor. The last several pours have gone well. We are hoping this last final one goes well. This change order costs are electrical. The quote given was less than the actual costs based on material. There are additional costs in testing as well.

Councilor Trujillo asked who does the testing.

Ms. Johansen said BSN. The contractor has eaten all the costs for wall failure.

Councilor Lindell said this change order is for \$96,000, you are asking for a budget adjustment of \$344,000. Why.

Ms. Johansen said when we created the budget we carried over the construction budget but did not carry over the engineering services budget. The budget adjustment does not increase the overall budget.

Councilor Lindell said on the \$96,000 40% is for the testing allowance. What was the total approximated.

Ms. Johansen said the original estimate was \$20,000.

Councilor Lindell said that was not a good estimate.

Ms. Johansen said no, it was not.

Councilor Lindell asked does that make us worry about the other estimates they give us.

Ms. Johansen said the other estimates have been fairly close. Testing has a huge value in doing this. This concrete is so variable. We have to check each

individual truck. It is more for our security.

Councilor Lindell said she can't wait for this project to go away. It has been an astounding amount of money and failure and more money and on and on. It feels like we are always left holding the bag.

Ms. Johansen said we have hired one of the leading experts on the concrete and tanks and that has been of huge value. We are charging the contractor \$1,000 a day for damages. We should get \$100,000 back at least.

MOTION A motion was made by Councilor Lindell, seconded by Councilor Trujillo, to approve item 15.

VOTE The motion passed unanimously by voice vote.

18. MATTERS FROM THE PUBLIC

There were no matters from the public.

19. MATTERS FROM THE CITY ATTORNEY

There were no matters from the City Attorney.

20. MATTERS FROM STAFF

There were no matters from staff.

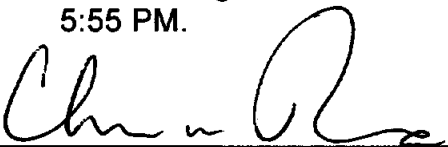
21. MATTERS FROM THE COMMITTEE

There were no matters from the Committee.

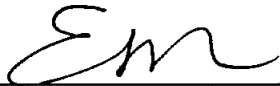
22. NEXT MEETING WEDNESDAY, MAY 3, 2017

23. ADJOURN

There being no further business before the Committee the meeting adjourned at 5:55 PM.



Councilor Christopher Rivera, Chair



Elizabeth Martin, Stenographer

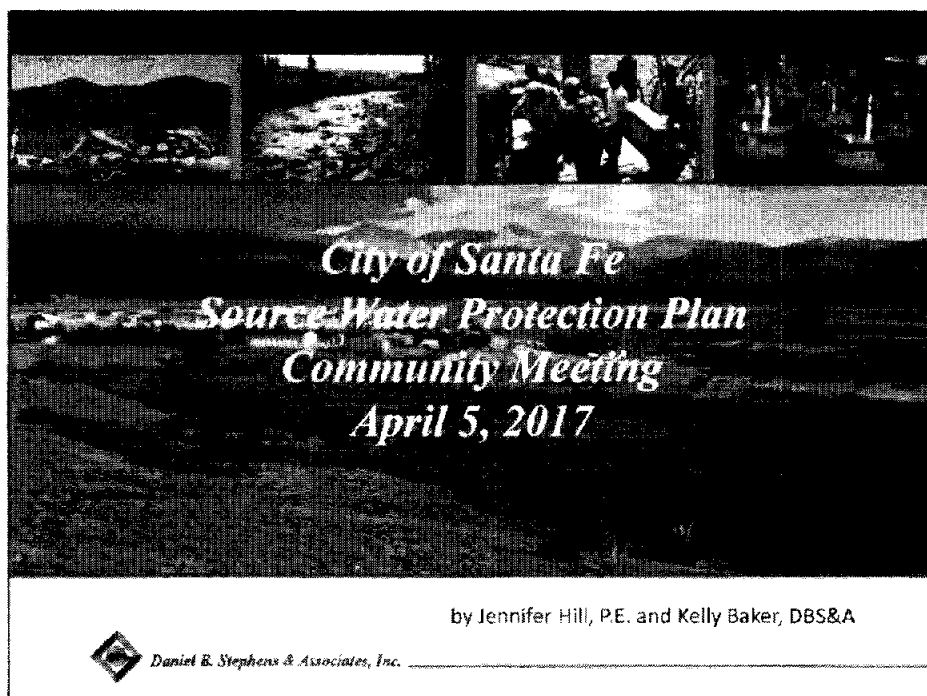
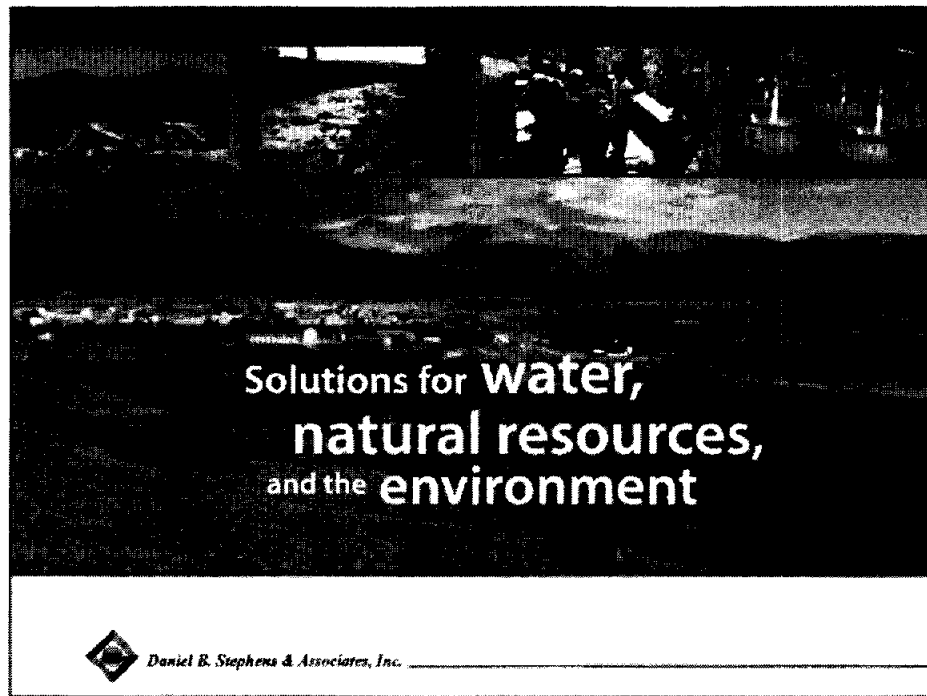


EXHIBIT "1"

Presentation Outline

- Source Water Protection Program
 - Background
 - Five-Step Process
- Source Water Protection Plan
 - Plan Development
 - Current Status
 - Moving Forward



Daniel B. Stephens & Associates, Inc.

3/28/2017

Source Water Protection Program

Background

- Safe Drinking Water Act (1996 amendment)
- Voluntary program overseen by the NMED Drinking Water Bureau (DWB)
 - NMED DWB provides assistance to communities for source water protection planning



Daniel B. Stephens & Associates, Inc.

3/28/2017

Source Water Protection Program

Key Steps

1. Form a Source Water Protection Team
2. Review Source Water Assessment to identify source water areas to be protected; sources of contamination; and susceptibility of source water to contamination
3. Develop methods of contamination prevention
4. Prepare a Source Water Protection Plan
5. Implement the Source Water Protection Plan



Daniel B. Stephens & Associates, Inc.

Source Water Protection Plan

Plan Development

- Create a Source Water Protection Team
 - Water System Representatives
 - Water Consumers
 - Community Stakeholders



Daniel B. Stephens & Associates, Inc.

Source Water Protection Team

Name	Affiliation
Alex Puglisi	City of Santa Fe
Alan Hook	City of Santa Fe



Daniel B. Stephens & Associates, Inc.

Sources of Information & Support

- NMED DWB - Source Water Protection Page
 - www.env.nm.gov/dwb/water_protection/Index.htm
 - Site contains: links for template*, informational brochures, contacts, US EPA, NM Rural Water Association links and more
- Safe Water Drinking Act 1974
 - <http://www.epa.gov/sdwa>

* New Mexico Source Water and Wellhead Protection Toolkit



Daniel B. Stephens & Associates, Inc.

Source Water Protection Plan

Plan Development

- Review/Update Source Water Assessment
 - DBS&A is utilizing NMED DWB Template
 - Existing Information
 - Water System
 - Water Quality
 - Production Rates and Well Pump Tests
 - Regional Hydrology



Daniel B. Stephens & Associates, Inc.

Source Water Protection Plan

Plan Development

- Source Water Assessment, cont.
 - Define Source Water Protection Area (SWPA)
 - Inventory Potential Sources of Contamination (PSOCs) within the SWPAs



Daniel B. Stephens & Associates, Inc.

Source Water Protection Plan

Plan Development

- Other Plans Considered
 - Water Conservation Plan
 - Emergency Response Plan
 - Public Education and Outreach Plan
 - Source Water and Wellhead Protection Plan
 - Source Water Monitoring Plan
 - Plan to Monitor and Control PSOCs



Daniel B. Stephens & Associates, Inc.

Source Water Protection Plan

Current Status

- Existing Information
 - Water System Information
 - Regional Hydrology
 - Water Quality
 - Measured Water Levels & Production Rates
- Source Water Protection Area



Daniel B. Stephens & Associates, Inc.

Source Water Protection Plan

Current Status

- Preliminary Inventory of Potential Sources of Contamination (PSOCs) within Protection Area
 - NMED Source Water Assessment
 - NMED DWB Source Water Atlas



Daniel B. Stephens & Associates, Inc.

Source Water Protection Area

Current Status

- Groundwater
 - City Well Field, Buckman Well Field, Other City wells
- Buffer Zones
 - Zone A: (0-200 ft)
 - Zone B: (201-500 ft)
 - Zone C: (501 -1,000 ft)
 - Zone D: (1,001 -5,280 ft)



Daniel B. Stephens & Associates, Inc.

Source Water Protection Area

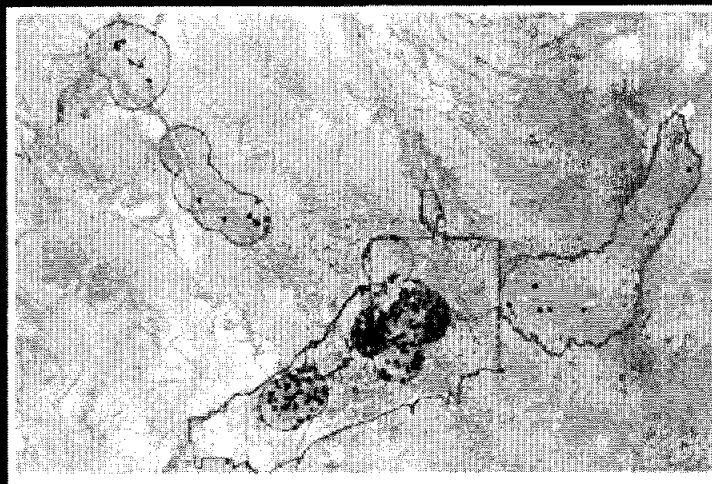
Source Water

- Surface water
 - Buckman Direct Diversion, Santa Fe River
- Buffer Zones
 - Zone A: (0-200 ft)
 - Zone B: (201-500 ft)
 - Zone C: (501-2,640 ft / boundary of watershed)



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Source Water Protection Area



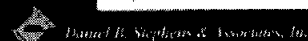
City wells, Buckman Well Field, Santa Fe River



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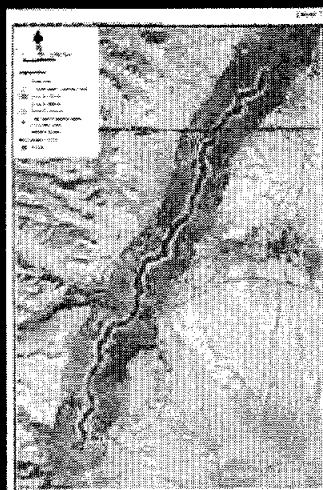
SWPA - Buckman Wells





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SWPA - Buckman Direct Diversion



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Potential Sources of Contamination

- Naturally occurring or human-caused
- PSOCs identified from the following sources:
 - NMED database: Source Water Protection Atlas
- Naturally occurring PSOCs (arsenic, arroyos)
- Human-caused PSOCs (Table 12)
 - Most common: private domestic wells (PDW)



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Table 12. Human-Caused Potential Sources of Contamination Occurring within the City's SWPAs

Map Code	Land Use	Description	Contaminants of Concern
Abatement site			
Arroyo	Ephemeral stream	Runoff and infiltration	Pesticides, herbicides, fertilizers, nitrate, pathogens
Brownfield			
CFA	Fuel storage tanks - above ground	Non-service station tanks	Gasoline, diesel fuel, organic/morganic chemicals
CFD	Fuel storage tanks - below ground	Non-service station tanks	Gasoline, diesel fuel, organic/morganic chemicals
CRY	Railroad yards and tracks	Operations, maintenance storage	Diesel fuel, pesticides, organic/inorganic chemicals
CSS	Gasoline service stations	Above/below ground storage tanks/operations	Gasoline, oil, solvents, automotive wastes, septage
Groundwater permit (active, inactive, ceased, terminated)			
MRP	Primary road, highway, or arterial	Public street, thoroughfare, highway, or main road	Gasoline, diesel fuels, metals, storm water runoff, hazardous materials, radiological materials
MSW	Solid waste transfer stations	Storage, disposal	Metals, organic/inorganic chemicals, pesticides, automotive wastes, oils
NPDDES permit	National Pollutant Discharge Elimination System (NPDDES) permit		
OSE well	Office of the State Engineer (OSE) well	Private domestic well that is registered with the OSE	Conduit for any contamination to enter aquifer
Voluntary remediation site			See Table 13 for site specific details



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Table 13. Groundwater Permits within the City's SWPAs

Permit Status	Permit Holder
Active	Buckman Road Recycling and Transfer Station
Active	Santa Fe Country Club
Active	Santa Fe County Judicial Complex Construction Site
Inactive	Santa Fe Generating Station
Ceased	Sweeny Elementary School
Terminated	Boylan Mobile Home Park
Terminated	Santa Fe Mobile Home Hacienda



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Table 14. Voluntary Remediation Sites within the City's SWPAs

Site Name	Site Address	Size (acres)	Contamination Type	Applicant	Status
Phillips Petroleum	760 Catillos Road	0.40	Petroleum hydrocarbons in soil and groundwater. BPE contamination in groundwater	City of Santa Fe	Closed
Premier Nissan	2005 St. Michael's Drive	2.90	Petroleum hydrocarbons associated with hydraulic lifts and sump	Omega Automotive Real Estate, LLC	Closed
Sanbusco Market Center	560 Montezuma Avenue	4.80	Hydraulic oil	Sanbusco Corp	Closed
Santa Fe County Judicial Complex	327 Sandoval Street	2.35	Petroleum hydrocarbons in soil and groundwater	Santa Fe County	Active - CCOC
Santa Fe Rail Yard Properties	Santa Fe Rail Yard	49.00	Metals and petroleum hydrocarbons in soil	City of Santa Fe	Closed
Smith's #491 Fuel Center	800 St. Michael's Drive	2.10	Petroleum hydrocarbons in soil	Smith's Food and Drug Stores	Closed



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Susceptibility Analysis

- Evaluate contamination risks
- Low to High based on **Exposure** and **Recovery**
- Vulnerability: assessment of number, proximity and type of PSOCs within each SWPA
- Sensitivity: assessment of infrastructure construction and integrity and hydrogeology



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Susceptibility Rankings

Source	Vulnerability Ranking	Sensitivity Ranking	Susceptibility Ranking
City Well Field			
Agua Fria	Moderately High	Moderately Low	Moderate
Alto	Moderately High	Moderately Low	Moderately Low
Ferguson	Moderately High	Low	Moderately Low
Osage	Moderately High	Moderately Low	Moderate
Santa Fe	High	Moderately Low	Moderate
St. Michaels	High	Low	Moderately Low
Torreon	Moderately High	Low	Moderately Low
Other City Wells			
Acres Estates	Moderately Low		
Country Club Estates	Moderately Low		
Hickox	Moderately High		
North West	Low	Low	Low



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Susceptibility Rankings

Source	Vulnerability Ranking	Sensitivity Ranking	Susceptibility Ranking
Buckman Well Field			
1	High	Low	High
2	Low	Low	Low
3	Low	Low	Low
4	Low	Low	Low
5	Low	Low	Low
6	Low	Low	Low
7	Low	Low	Low
8	Low	Low	Low
9	High	Low	High
10	Low	Low	Low
11	High	Low	High
12	High	Low	High
13	High	Low	High
Santa Fe River			
Santa Fe River	Low	Moderate	Moderate



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Source Water Protection Plan

Monitoring Data Needed

- Data Needed:
 - Other City wells
 - Septic system data
 - Production data for 2014 and 2015
 - Treated effluent
 - Reservoir repair projects
 - Well information
 - Current monitoring plan for arsenic & LANL



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Source Water Protection Plan

Moving Forward

- Identify members of SWP Team
- Input Needed from SWP Team:
 - Local knowledge of additional actual and potential contamination threats
 - Plan review and comment
 - Implementation plan



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Source Water Protection Plan

Moving Forward

- Next Steps:
 - 30 Day Comment Period
 - Finalize the Plan
 - DBS&A to present final SWPP to the Team
 - Date TBD



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Comments on SWPP

Return comments to:

Alex Puglisi

City of Santa Fe

Email: aapuglisi@santafenm.gov



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Questions?



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