

AGENDA

WORK SESSION OF THE CITY COUNCIL OF THE CITY OF COTTONWOOD, ARIZONA,
TO BE HELD JUNE 13, 2017, AT 6:00 PM., AT THE COUNCIL CHAMBERS BUILDING, 826
NORTH MAIN STREET, COTTONWOOD, ARIZONA.

- I. CALL TO ORDER
- II. ROLL CALL
- III. ITEMS FOR DISCUSSION, CONSIDERATION, AND POSSIBLE
DIRECTION TO STAFF:

***Comments regarding items listed on the agenda are limited to a 5
minute time period per speaker.***

- | | |
|------------|--|
| 45 minutes | 1. WATER AND WASTEWATER MASTER PLANS. |
| 1 hour | 2. RIVERFRONT WATER RECLAMATION FACILITY DISCHARGE
OPTIONS. |

- IV. ADJOURNMENT

Pursuant to A.R.S. 38-431.03.(A) the Council may vote to go into executive session on any agenda item pursuant to A.R.S. 38-431.03.(A)(3) Discussion or consultation for legal advice with the attorney or attorneys of the public body.

The Cottonwood Council Chambers is accessible to the disabled in accordance with Federal 504 and ADA laws. Those with needs for special typeface print or hearing devices may request these from the City Clerk (TDD 634-5526.) All requests must be made 24 hours prior to the meeting.

Members of the City Council will attend either in person or by telephone conference call.

City of Cottonwood, Arizona
City Council Agenda Communication

☐ Print

Meeting	June 13, 2017
Date:	
Subject:	Water and Wastewater Masterplan presentation to City Council
Department:	Utility Services
From:	Utility Services- Roger Biggs

REQUESTED ACTION

None Required, Information/ Discussion only

SUGGESTED MOTION

If the Council desires to approve this item the suggested motion is: NA

BACKGROUND

In October 2015, the City Council approved a contract with Ken Knickerbocker P.E. of Pineview Consulting LLC to prepare a detailed study of the City's water production and distribution, wastewater collections and treatment infrastructure systems. The results of that study are presented to Council this evening. Ken has subcontracted with Martin Weeden from Entellis Engineering to collect and compile the water system data. Ken and Martin's PowerPoint presentation will expand upon the results of their studies.

The intent of the study was to collect information to comply with new laws related to charging impact fees such as water and wastewater. Some cities also charge for other services, but our impact fee consultant, Pat Walker, did not feel any other city service costs could be justified as part of an impact fee.

JUSTIFICATION/BENEFITS/ISSUES

The payment of Impact Fees by Developers for development driven infrastructure has been curtailed. An updated Water and Wastewater Masterplan is one of the legislative requirements to re-establish the payment and collection of Impact Fees. Due to their complexity, the masterplans have been divided into three separate reports:

- (1) Water Masterplan: covering the potable water production, storage, treatment and distribution system for Cottonwood, Verde Village and Verde Santa Fe.
- (2) Wastewater Collection System Masterplan: the sewage collection system within Cottonwood
- (3) Wastewater Treatment Plants. Future upgrades and expansion.

The Masterplans provide the foundation necessary to make informed funding, utility rate and infrastructure decisions required to cope with future population growth and

development.

COST/FUNDING SOURCE

Council approved the contract in October of 2015 and it was budgeted through water and wastewater funds. The cost of completing the master plan recommendations is substantial and will impact fees as well as user fees as the future and needs unfold.

ATTACHMENTS:

File Name	Description	Type
Pineview_Water_Wastewater_master_plan.xls	Purchase order requisition	Backup Material

REQUISITION

Approved:

P.O. # Issued

Department: Utility/Water

Date:

11/19/2015

To:

Purchasing Agent: City of Cottonwood, Arizona

Request authorization be given to purchase the following items from:

Firm/Vendor: Pineview Consulting LLC

Address 5416 W. Pershing Ave

City, State Zip Glendale, AZ 85304

Phone/Fax number

Subject to Council Approval? (Yes or No) No

Date Needed:

11/30/2015

DESCRIPTION

QUANTITY

UNIT COST

COST

Professional services per proposal for preparation of water and wastewater master plan.

1

NTE/LS

\$115,600

BUDGET ACCT.#: 50/50 50 7020 620240 51 7120 620240

\$ 115,600.00

Additional Information:

Approved by City Council 10/6/2015

SHIPPING

TAX

TOTAL

SIGNED:

Department Head

City of Cottonwood, Arizona
City Council Agenda Communication

☐ Print

Meeting	June 13, 2017
Date:	
Subject:	Riverfront Water Reclamation Facility Effluent Discharge options
Department:	Utility Services
	Utilities/ Natural Resources
From:	Roger Biggs / Tom Whitmer

REQUESTED ACTION

None required, information only. Possible Council direction.

SUGGESTED MOTION

If the Council desires to approve this item the suggested motion is: NA

BACKGROUND

The Riverfront Water Reclamation Facility (RWRF) is scheduled to open this summer. The wastewater treatment plant will generate approximately 280,000 gallons per day of A+ quality effluent. During most of the year, the majority of this effluent will be used for irrigation within Riverfront Park and the surrounding City owned parcels. During the evolution of the plant design, construction and permitting process, several options have been discussed for distributing effluent remaining after the Park's irrigation requirements are met.

The primary method planned was recharge through direct underground injection. After conducting several injection tests, however, this option no longer appears feasible due to the number of injection wells that would be required to accommodate the volume of reclaimed water projected to be available. Because of the shallow aquifer in the area, the reclaimed water would need to be injected under pressure possibly creating problems at the ground level. Staff is currently working on several solutions to facilitate the disposal of the available reclaimed water. Solutions under consideration include injection at a location(s) further from the river, direct discharge to the river, direct discharge to Cottonwood Ditch, and creating increased areas of irrigation. Staff is also working with ADEQ on any additional permitting that may be required and to ensure their agreement with any accepted solutions.

It is important to clarify that this challenge will not delay the opening of the plant. We will not be able to use reclaimed water from the operation of the plant has been approved by ADEQ which will take at least 6 to 8 months.

JUSTIFICATION/BENEFITS/ISSUES

The goal is to make the best possible use of reclaimed water to reduce city impact on the aquifer and the river in a cost-effective manner. While injection is the preferred method for irrigation and discharge is the preferred method of use, an acceptable location for injection needs to be located.

COST/FUNDING SOURCE

Any costs would be budgeted in the water or wastewater funds.

ATTACHMENTS:

File Name	Description	Type
Potential_irrigation_zones.jpg	Potential irrigation zones	Backup Material

Potential reclaimed irrigation zones

Write a description for your map.

Legend

Cottonwood

