



**PURCHASING ITEM  
FOR  
COUNCIL AGENDA  
Memo No. CP17-095**

**1. Agenda Item Number:**  
**23**  
**2. Council Meeting Date:**  
November 10, 2016

**TO: MAYOR AND COUNCIL**

**3. Date Prepared:** October 26, 2016

**THROUGH: CITY MANAGER**

**4. Requesting Department:** Municipal Utilities

**5. SUBJECT:** Project Agreement with Southwest Ground-water Consultants for the Tumbleweed Recharge Facility Permit Modifications

**6. RECOMMENDATION:** Staff recommends City Council award a Project Agreement to Southwest Ground-water Consultants, for the Tumbleweed Recharge Facility Permit Modifications, pursuant to Annual Water and Wastewater Contract No. EN1203.101, Project No. WW1704.201, in an amount not to exceed \$85,860.

**7. BACKGROUND/DISCUSSION:** The Tumbleweed Recharge Facility is located in and around Tumbleweed Park, situated at 2250 S. McQueen Road. The aquifer storage and recovery (ASR) wells within the park are used to inject reclaimed water to the groundwater aquifer for storage and later use. This ASR facility is regulated both by Arizona Department of Water Resources (ADWR) and the Arizona Department of Environmental Quality (ADEQ). Southwest Ground-water Consultants recently completed an evaluation of historic groundwater recharge capacity and water quality. Based on preliminary results, it is estimated that additional water can be recharged through ASR wells. Staff had preliminary meetings with the ADWR and ADEQ regarding permit amendments to increase recharge capacity. The consultant will complete groundwater flow models and analyze the potential impacts to nearby landowners. ADWR and ADEQ require this analysis to ensure that there are no impacts to nearby landowners.

The project scope of work consists of: analysis, preparation, and submission of the Aquifer Protection Permit, Underground Storage Facility, and Water Storage Permit applications to ADEQ and ADWR.

**8. EVALUATION:** This project is being performed under the Annual Water and Wastewater Services Contract No. EN1203.101, to Southwest Ground-water Consultants. The costs proposed for this project have been evaluated by staff and are determined to be reasonable. The contract completion time is 360 calendar days following Notice to Proceed.

**9. FINANCIAL IMPLICATIONS:**

Cost: \$85,860  
Savings: N/A  
Long Term Costs: N/A

**Fund Source:**

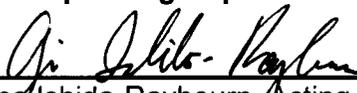
<u>Account No.:</u>	<u>Fund Name:</u>	<u>Program Name:</u>	<u>CIP Funded:</u>	<u>Amount:</u>
611.3910.6817.6WW189	Wastewater Bonds	Effluent Reuse Storage & Recovery Wells	Yes	\$85,860

**10. PROPOSED MOTION:** Move City Council award a Project Agreement to Southwest Ground-water Consultants, for the Tumbleweed Recharge Facility Permit Modifications, pursuant to Annual Water and Wastewater Contract No. EN1203.101, Project No. WW1704.201, in an amount not to exceed \$85,860.

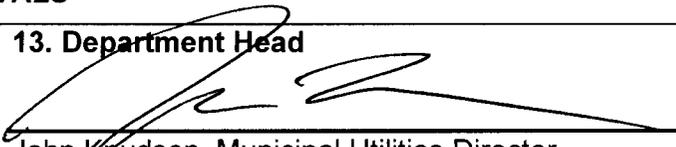
**ATTACHMENTS:** Location Map, Agreement

**APPROVALS**

**11. Requesting Department**

  
Gina Ishida-Raybourn, Acting Utilities Engineering Manager

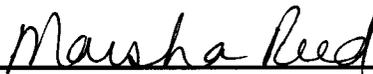
**13. Department Head**

  
John Knudson, Municipal Utilities Director

**12. Transportation & Development**

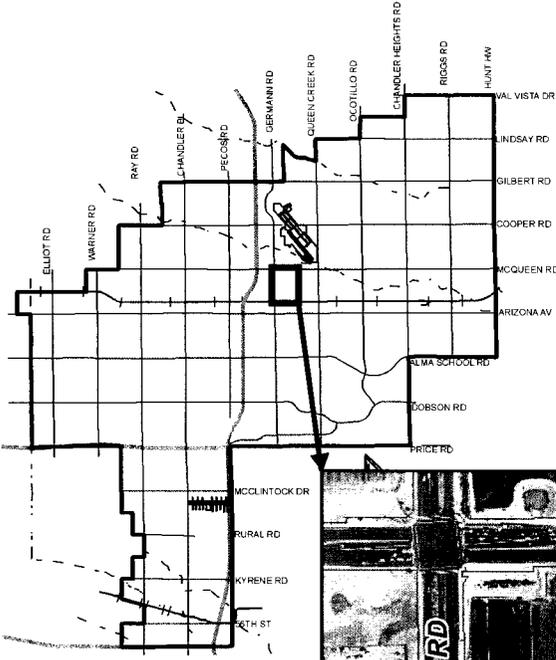
  
Bob Fortier, Capital Projects Manager

**14. City Manager**

  
Marsha Reed



**TUMBLEWEED RECHARGE FACILITY  
 PERMIT MODIFICATIONS  
 PROJECT NO. WW1704.201**



**MEMO NO. CP17-095**

● PROJECT SITES



**PROJECT AGREEMENT  
PURSUANT TO ANNUAL CONTRACT NO. EN1203.101**

**PROJECT AGREEMENT NO: WW1704.201**

This PROJECT AGREEMENT is made this \_\_\_\_\_ day of \_\_\_\_\_, 2016, by and between the City of Chandler, a municipal corporation (hereinafter referred to as "CITY") and Southwest Ground-water Consultants, an Arizona corporation, (hereinafter referred to as "Annual Consultant") and is a project agreement entered into pursuant to Annual Contract No. EN1203.101.

CITY and Southwest Ground-water Consultants, in consideration of the mutual covenants herein set forth, agree as follows:

**ARTICLE 1 - DESCRIPTION OF WORK:**

This project is **Tumbleweed Recharge Facility Permit Modifications**, Project Number **WW1704.201**. The scope of work consists of preparing modifications to the City's Tumbleweed Recharge Facility Underground Storage Facility (USF) and Water Storage (WS) permits and a significant amendment to the Aquifer Protection Permit (APP) for the facility, all as more particularly set forth in Exhibit A attached hereto and incorporated herein by reference.

The Annual Consultant shall not accept any change of scope, or change in contract provisions, unless issued in writing, as a contract amendment and signed by the Contract Administrator.

**ARTICLE 2 - CONTRACT PRICE:**

CITY shall pay Annual Consultant for completion of the Work in accordance with the Contract Documents a fee not to exceed Eighty Five Thousand Eight Hundred Sixty Dollars (\$85,860) determined and payable as set forth in Annual Contract EN1203.101 and Exhibit B attached hereto and made a part hereof by reference.

**ARTICLE 3 - CONTRACT TIME:**

The contract time is Three Hundred Sixty calendar days and Annual Consultant agrees to complete all work within Three Hundred Sixty (360) calendar days of the date CITY issues a Notice to Proceed.

**ARTICLE 4 - GENERAL:**

This Project Agreement is entered into pursuant to Annual Contract No. EN1203.101 and the terms and conditions contained therein are incorporated herein by reference as if set forth in full.

IN WITNESS WHEREOF, the parties hereto have executed this Project Agreement on the day and year first written above.

This Project Agreement will be effective on this \_\_\_\_\_ day of \_\_\_\_\_, 2015.

CITY OF CHANDLER

FOR THE ANNUAL:

\_\_\_\_\_  
MAYOR DATE:

By: Steve J. Noel  
Title: DIRECTOR

ADDRESS FOR NOTICE  
City of Chandler  
P.O. Box 4008, Mail Stop 407  
Chandler, AZ 85244-4008  
480-782-3307

ADDRESS FOR NOTICE  
Mr. Bill Greenslade  
Southwest Ground-water Consultants  
3033 N. 44<sup>th</sup> St., Ste. 120  
Phoenix, AZ 85018

APPROVED AS TO FORM:

Phone: 602-955-5547

\_\_\_\_\_  
City Attorney By: 

ATTEST:

\_\_\_\_\_  
City Clerk

## **EXHIBIT A SCOPE OF WORK**

ANNUAL CONSULTANT shall provide the following services:

### **TASK 1 – AGENCY PRE-APPLICATION MEETINGS**

ANNUAL CONSULTANT shall prepare materials for presentation and attend up to two (2) pre-application meetings: one (1) with the Arizona Department of Water Resources (ADWR) and one (1) with the Arizona Department of Environmental Quality (ADEQ). Materials will include a presentation detailing the proposed changes to the permits and may include technical memoranda outlining the approach to analysis of the proposed recharge capacity. ANNUAL CONSULTANT shall prepare minutes of the meetings.

### **TASK 2 – CONDUCT HYDROLOGIC STUDY TO INCREASE THE PERMITTED CAPACITY**

ANNUAL CONSULTANT shall prepare the hydrologic data and analyses necessary to support an application to increase the current recharge capacity in the USF, WS and APP permits. Work will include the documentation of analytical studies of ASR well recharge rates and water level response. In addition, the replacement of APP POC wells will be evaluated and, if necessary new designs provided to meet current ADEQ guidelines. ANNUAL CONSULTANT shall utilize and adapt the ADWR SRV Groundwater Flow Model to conduct and document the following permit requirements:

- Hydrologic Feasibility (ADWR),
- Unreasonable Harm and Area of Impact (ADWR),
- Mounding and DIA analyses (APP)

ANNUAL CONSULTANT shall submit draft application sections to the City for review and comment. Following review, ANNUAL CONSULTANT shall make any agreed upon changes.

### **TASK 3 – PREPARE APPLICATIONS TO MODIFY (ADWR) AND AMEND (ADEQ) THE USF, WS AND APP PERMITS**

ANNUAL CONSULTANT shall prepare applications, with supporting documentation, to modify the current USF, WS and APP permits in accordance with the appropriate current ADWR and ADEQ guidance documents. ANNUAL CONSULTANT shall subcontract with Wilson Engineers to provide engineering analysis, drawings and documentation related to well equipping, piping and controls.

ANNUAL CONSULTANT shall submit a draft of the applications and supporting documentation to City for review and comment. Following City review, ANNUAL CONSULTANT shall make any agreed upon changes and submit the USF and WS applications to ADWR and the APP application to ADEQ, along with the relevant application fees. Agency review fees beyond the initial application fees will be billed directly to, and paid by the City.

### **TASK 4 – RESPOND TO AGENCY QUESTIONS AND COMMENTS**

ANNUAL CONSULTANT shall assist the City in responding to verbal or written questions and comments from ADWR and ADEQ during their review of the applications and drafting of the permits. It is impossible to determine with certainty the number and type of questions that may be asked; ANNUAL CONSULTANT has included hours in the cost estimate based on recent experience on other recent similar projects. If additional hours and costs are needed to respond to agency comments, ANNUAL CONSULTANT shall prepare an amendment to the scope and costs.

**CLARIFICATIONS, ASSUMPTIONS, AND EXCLUSIONS**

- Expenses for items such as printing, delivery, and mileage, shall be compensated at cost utilizing the Direct Expense Allowance.
- Owner's Allowance shall only be utilized for additional services with prior written approval from the City.

**EXHIBIT B  
FEE SCHEDULE**

PERSONNEL	RATE (\$/HR)	HOURS	COST
<b>TASK 1 - Meet with Agencies</b>			
Principal	185	8	\$1,480
Senior Professional	160	10	\$1,600
Project Professional	135	0	\$0
Staff Professional	110	12	\$1,320
Technician	90	0	\$0
Clerical	50	0	\$0
Expenses		0	\$0
Subcontractors		0	\$0
<b>Sub-total</b>		<b>30</b>	<b>\$4,400</b>
<b>Task 2- Hydrologic Analyses</b>			
Principal	185	20	\$3,700
Senior Professional	160	40	\$6,400
Project Professional	135	10	\$1,350
Staff Professional	110	80	\$8,800
Technician	90	0	\$0
Clerical	50	0	\$0
Expenses		0	\$0
Subcontractors		0	\$0
<b>Sub-total</b>		<b>150</b>	<b>\$20,250</b>
<b>TASK 3 - Prepare Applications</b>			
Principal	185	20	\$3,700
Senior Professional	160	40	\$6,400
Project Professional	135	10	\$1,350
Staff Professional	110	20	\$2,200
Technician	90	0	\$0
Clerical	50	0	\$0
Expenses			\$5,500
Subcontractors (Wilson Engineers)			\$21,010
<b>Sub-total</b>		<b>90</b>	<b>\$40,160</b>
<b>TASK 4 - Respond to Questions</b>			
Principal	185	20	\$3,700
Senior Professional	160	40	\$6,400
Project Professional	135	10	\$1,350
Staff Professional	110	40	\$4,400
Technician	90	0	\$0
Clerical	50	0	\$0
Expenses			\$200
<b>Sub-total</b>		<b>110</b>	<b>\$16,050</b>
<b>Owners Allowance</b>			<b>\$5,000</b>
<b>TOTAL</b>		<b>380</b>	<b>\$85,860</b>