



**PURCHASING ITEM
FOR
COUNCIL AGENDA
Memo No. CP14-066**

1. Agenda Item Number:

21

2. Council Meeting Date:
November 7, 2013

TO: MAYOR & COUNCIL

3. Date Prepared: October 22, 2013

THROUGH: CITY MANAGER

4. Requesting Department: Municipal Utilities

5. SUBJECT: Project Agreement with Wilson Engineers, LLC, for Chandler Water Reclamation Campus (CWRC) Expansion Engineering Services.

6. RECOMMENDATION: Staff recommends City Council award a Project Agreement to Wilson Engineers, LLC, for Chandler Water Reclamation Campus (CWRC) Expansion Engineering Services, pursuant to Annual Contract No. EN1306-101, Project No. WW1407-201, in an amount not to exceed \$686,037, contingent upon written notification from Intel and appropriate funding.

7. BACKGROUND/DISCUSSION: The CWRC is comprised of the existing Ocotillo Water Reclamation Facility (OWRF), OWRF-Airport Water Reclamation Facility (AWRF) Lift Station, Ocotillo Aquifer Storage Recovery (ASR) Facility, Reverse Osmosis (RO) Facility, and the proposed Chandler Water Reclamation Facility (CWRF). The CWRC is located on the southeast corner of Old Price and Queen Creek Roads.

The project scope includes development of additional effluent recharge capacity by permitting and design of four additional ASR wells at the Ocotillo ASR Facility. Three of the four ASR wells are funded by Intel, per the Master Development Agreement, adopted by Mayor and Council, February 9, 2012. Additional scope tasks include investigation and modification to increase existing recharge permits, and consolidation of as-built drawings.

8. EVALUATION: This project is being performed under the Annual Permitting, Studies, Design, and Post-Design Services for water and wastewater facilities, Contract No. EN1306-101, to Wilson Engineers, LLC. The costs proposed for this project have been evaluated by staff and are determined to be reasonable. The contract completion time is 365 calendar days following Notice to Proceed.

9. FINANCIAL IMPLICATIONS:

Cost: \$686,037
Savings: N/A
Long Term Costs: N/A
Fund Source:

<u>Acct. No.:</u>	<u>Fund Name:</u>	<u>Program Name:</u>	<u>CIP Funded:</u>	<u>Amount:</u>
615.3910.6817.6WW012	Wastewater Operating	Water Reclamation Facility Expansion	Yes	\$437,056
610.3910.6817.6WW189	Reclaimed SDF	Effluent Reuse Aquifer Storage & Recovery Wells	Yes	\$248,981

Based on the fee schedule, Intel's portion of the shared cost is \$437,056.

10. PROPOSED MOTION: Move City Council award a Project Agreement to Wilson Engineers, LLC, for Chandler Water Reclamation Campus (CWRC) Expansion Engineering Services, pursuant to Annual Contract No. EN1306-101, Project No. WW1407-201, in an amount not to exceed \$686,037, contingent upon written notification from Intel and appropriate funding.

ATTACHMENTS: Project Agreement, Location Map

APPROVALS

11. Requesting Department


John Knudson, Utilities Engineering Manager

12. Transportation & Development


Bob Fortier, Capital Projects Manager

13. Department Head


Dave Siegel, Municipal Utilities Director

14. City Manager


Rich Dlugas

**PROJECT AGREEMENT
PURSUANT TO ANNUAL CONTRACT NO. EN1306-101**

PROJECT AGREEMENT NO: WW1407-201

This PROJECT AGREEMENT is made this ____ day of _____, 2013, by and between the City of Chandler, a municipal corporation (hereinafter referred to as "CITY") and Wilson Engineers, LLC, registered in the state of Arizona (hereinafter referred to as "Annual Consultant") and is a project agreement entered into pursuant to Annual Contract No. EN1306-101.

CITY and Wilson Engineers, LLC, in consideration of the mutual covenants herein set forth, agree as follows:

ARTICLE 1 - DESCRIPTION OF WORK:

This project is Chandler Water Reclamation Campus Expansion, Project Number WW1407-201. The scope of work consists of developing additional effluent recharge capacity at the Chandler Water Reclamation Campus (CWRC), 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 Six Hundred Eighty Six Thousand Thirty Seven Dollars (\$686,037) determined and payable as set forth in Annual Contract EN1306-101 and Exhibit B attached hereto and made a part hereof by reference.

ARTICLE 3 - CONTRACT TIME:

The contract time is three hundred sixty five calendar days and Annual Consultant agrees to complete all work within Three Hundred Sixty Five (365) 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. EN1306-101 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 _____, 2013.

CITY OF CHANDLER

FOR THE ANNUAL:

MAYOR DATE:

By: _____
Title: _____
STEVE TODD

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

ADDRESS FOR NOTICE
Mr. Steve Todd
Wilson Engineers, LLC
9633 S. 48th St., Ste. 290
Phoenix, AZ 85044-5658

APPROVED AS TO FORM:

Phone: 480-893-8860
Fax: 480-893-8968

City Attorney By: _____
ATTEST:

City Clerk

EXHIBIT A SCOPE OF WORK

ANNUAL CONSULTANT shall develop additional effluent recharge capacity at the Chandler Water Reclamation Campus (CWRC) located on the southeast corner of Old Price Road and Queen Creek Road. The CWRC is comprised of the existing Ocotillo Water Reclamation Facility (OWRF), OWRF-Airport Water Reclamation Facility (AWRF) Lift Station, Ocotillo Recharge Facility or Ocotillo Aquifer Storage Recovery (ASR) site, Reverse Osmosis (RO) Facility, and the new Chandler Water Reclamation Facility. This effort will be conducted in multiple tasks. A summary of these tasks and a summary of design services and permitting services are listed below. The summaries are followed by detailed descriptions of each task.

- **Task A – Consolidate Record Drawing of Existing Infrastructure:** ANNUAL CONSULTANT shall provide engineering services to consolidate prior Ocotillo Recharge Facility Projects into one overall facility as-built including all previous recharge projects, all previous non-recharge projects that have been constructed within the confines of the recharge facility boundaries, and all current non-recharge projects being constructed within the confines of the recharge facility boundaries.
- **Task B – Ocotillo Recharge Facility Expansion:** The City desires to expand the permitted and physically available recharge capacity of the existing Ocotillo Recharge Facility. ANNUAL CONSULTANT shall provide design and permitting services for the installation of four (4) new ASR wells on this site (ARS wells 7 thru 10). All of the wells will be capable of recharging effluent from the OWRF, the City's Reclaimed Water Distribution System (RWDS); and potentially from the RO Facility. Services shall also be provided to prepare a major modification to the existing Aquifer Protection Permit, as well as, modifications to the existing Underground Storage Facility and Water Storage Permits.
- **Task C – Minor Modification to Tumbleweed Recharge Facility APP:** The City desires to evaluate the effects of recharging permeate water (produced by the RO Facility) at the Tumbleweed Recharge Facility. ANNUAL CONSULTANT shall evaluate the water quality impacts on the existing Tumbleweed ASR Wells and, subject to the results of that evaluation, add the permitting flexibility to recharge the permeate water by applying for a minor amendment to the Tumbleweed Recharge Facility APP.

The following summarizes the engineering design and permitting services to be included with this project:

DESIGN SERVICES SUMMARY:

The Ocotillo Recharge Facility Expansion (ASR Wells 7 thru 10) Project Scope of Services will consist of design, preparation of contract documents, permitting, and bid services. No post design services are included at this time. The following major facility components will be included in the design:

- Design of new above ground ASR wells 7 thru 10 including vertical turbine pumps and motor.
- Recharge Flow Control Valve (RFCV) at each well. Compressed air shall be used to actuate the RFCV at each well.
- Well discharge piping, valves, magnetic flow meter, and appurtenances to connect the well to the Facility's existing purge and recharge piping systems.
- Design improvements to the existing grading and drainage.
- Expand the electrical power distribution to accommodate each site or bring in a new service for the new wells. Add secondary equipment and Programmable Logic Controller (PLC) equipment within an air conditioned cabinet at each well head.
- Instrumentation and pump controls including coordination with the City's SCADA system. This may include expanding the existing Ocotillo Recharge Facility communication system.

- Due to the impacts of the future Old Price Road widening, design relocation and replacement of the existing Monitoring Well OW-MW2 (adjacent to Old Price Road).
- Provide construction bid documents for drilling the new ASR Wells 7 thru 10, as well as, a second set of construction bid documents for well equipping of same wells.

PERMITTING SUMMARY:

The following permits shall be acquired as part of this project:

- Existing Ocotillo Recharge (South Well Field) Facility: Major modification to the existing APP and modifications to the existing USF and WS Permits. The permit modifications may also include the flexibility to recharge permeate water produced by the RO Facility.
- Existing Tumbleweed Recharge Facility: Subject to the predicted impacts of recharging permeate water produced by the RO Facility, the permit modification will add the flexibility to recharge permeate water produced by the existing RO Plant at both the Ocotillo and Tumbleweed Recharge Facilities.

Specific services not included in this Scope are as follows:

- Landscaping services. It is assumed that landscape design services will not be required for this project, therefore not included in the scope of services.
- Construction Phase Engineering Services and Construction Administration Services.

The detailed engineering services to be provided are defined in the following tasks.

TASK A - CONSOLIDATE RECORD DRAWINGS OF EXISTING INFRASTRUCTURE (OCOTILLO RECHARGE FACILITY)

A.1 CONSOLIDATED RECORD DRAWINGS: The purpose of this task is to consolidate the record drawings of the Ocotillo ASR Well Recharge Facility, other projects located within the campus confines, verify the current accuracy of the record drawings through field investigations, and to update the record drawings based on any observed modifications made to the facilities by City Staff. This will consist of the following efforts:

A.1.1 Data Collection & Utility Coordination: Collect and review record drawings for projects previously completed within the limits of the existing Ocotillo Recharge Facility including:

- Ocotillo Aquifer Recharge Facility (Original Wells 1-4)
- Ocotillo Aquifer Recharge Facility Expansion (expansion to Wells 1-4)
- Ocotillo ASR Wells 5-6
- RO Plant Brine Ponds
- 42-inch South Chandler Sewer
- OWRF to AWRF 36-inch Force main
- Intel Reclaimed Water Line
- RWDS PRV Station
- Ocotillo GRIC Pump Station and pipeline.

In addition, collect plans of projects currently under construction or planned for construction including the RO Plant Brine Reduction Facility. Further, contact utility companies known to have underground utilities located within the confines of both the Ocotillo Recharge Facility to collect as-built information.

A.1.2 Site Survey: Due to the history of projects at and adjacent to the Ocotillo Recharge Facility, perform topographic survey of the overall Recharge Facility, Ocotillo Effluent Pump Station area, and land north of the existing facility proposed for potential future recharge activities to document the current conditions and surface features.

NOTE: A survey allowance of \$7,500 is included

A.1.3 Coordinate Utility Investigations: Field locate any underground utilities, if necessary. An allowance is included for potholing exact locations of underground utilities in question. This task assumes a maximum of eight (8) utility potholes will be conducted at the recharge facility.

NOTE: A pothole allowance of \$4,800 is included.

A.1.4 ASR Recharge Facility – Field Investigations / As-built Verification: After collecting and evaluating the existing ASR Well record drawing information, the ANNUAL CONSULTANT will interview the City's Municipal Utilities Department personnel in order to determine the extent of modifications made to each ASR Well Facility following their final completion. The ANNUAL CONSULTANT shall also visit each ASR Well Facility to observe the operating equipment and to document specific modifications within reasonable view with the intent being to incorporate the facility modifications into the overall record drawings package. For purposes of this project, visible modifications to the mechanical, electrical, and instrumentation and control systems will be documented.

A.1.5 Draft – Overall Consolidated Record Drawings: Consolidate the record drawings for all previous ASR Well Facility Projects (wells 1 thru 6). Prepare an updated site plan documenting the as-built condition of all ASR projects to date, other known buried utility infrastructure, other known surface projects, and incorporating all ASR Well Facility modifications discovered in Task 2.1. Five (5) hardcopies of the Draft Overall Record Drawings Package and one (1) electronic PDF format on CD will be submitted for review to the City. One review meeting will be conducted to discuss any comments received from the City.

A.1.6 Final – Overall Consolidated Record Drawings: Incorporate the City's comments on the Draft Overall Record Drawings Package. Five (5) hardcopies of the Final Overall Record Drawings Package, one (1) electronic copy in PDF format on CD, and one (1) electronic CADD format on CD will be submitted to the City.

TASK B – OCOTILLO RECHARGE FACILITY EXPANSION (SOUTH WELL FIELD)

The City desires to expand the recharge capacity of the existing Ocotillo (South) Recharge Facility, if possible. This will include design and permitting services for the installation of four (4) new Aquifer Storage and Recovery (ASR) wells on this site (wells 7 thru 10). For this reason, this project will prepare the hydrogeologic data and analyses necessary to support increasing the permitting and physical recharge capacity of the existing facility. In addition to increasing the recharge capacity, the City also desires to have the flexibility to recharge permeate water at the Ocotillo Recharge Facility.

TASK B.1 BASIS OF DESIGN:

B.1.1 Draft Basis of Design Report: Based on the available data, site investigations, and the City's current design standards, ANNUAL CONSULTANT shall prepare a design report for the Ocotillo ASR Well Facility Expansion that includes the preliminary site plan and facility layout, design criteria and standards for the pump station expansion, ASR Well Equipping, miscellaneous pipelines, and other critical mechanical items, instrumentation preferences, operating and control strategies, preliminary Piping and Instrumentation Diagrams (P&IDs), estimated site power requirements, preliminary construction cost estimate, identification of any additional design issues and recommendations. The Draft Basis of Design Report shall also memorialize the Technical Memoranda developed as part of Task 3.0. ANNUAL CONSULTANT shall submit six (6) hardcopies of the Design Basis Report to the

City of Chandler for review and one (1) electronic PDF format on CD. A review meeting will be conducted to discuss comments on the Design Basis Report.

B.1.2 Final Basis of Design Report: Incorporate City comments on the draft report and submit three (3) hardcopies of the final design report and one (1) PDF format on CD to the City.

B.1.3 Drainage Report and Preliminary Plan: With the various projects that have been completed within the confines of the Ocotillo Recharge Facility, existing drainage retention basin has likely lost much of its original purpose. For this reason, ANNUAL CONSULTANT shall prepare a Drainage Report and Grading & Drainage Plan to update and improve existing drainage conditions at the Ocotillo Recharge Facility. The Drainage Report will be submitted to the City with the Agency Review plans and specifications.

TASK B.2 ADWR PERMITTING SERVICES: ANNUAL CONSULTANT shall lead the ADWR permitting efforts for the existing Ocotillo Recharge Facility and Sub-Consultant, Southwest Ground-water Consultants, Inc. (SGC) and Clear Creek Associates (Clear Creek) will provide hydrogeologic technical support.

B.2.1.1 ADWR Pre-Application Meeting: Attend up to two (2) pre-application meetings with ADWR to present and discuss the project. Materials may include technical memorandums (proposals) outlining the approach to the analysis of maximum recharge capacity and slides for inclusion in presentation materials.

B.2.1.2 Prepare Underground Storage Facility Permit Modification: ANNUAL CONSULTANT shall prepare the necessary permit modification application and technical materials necessary to modify the City's existing Ocotillo Underground Storage Facility (USF) Permit. SGC shall prepare hydrological data analysis necessary to support application to modify current USF permits.

B.2.1.3 Water Storage Permit: ANNUAL CONSULTANT shall prepare the necessary permit modification application and technical materials necessary to modify the City's existing Ocotillo Water Storage Permit.

B.2.1.4 ADWR Permit Coordination: Monitor status of the permitting process, coordinate with ADWR as necessary, and provide additional requested information, review and comment on draft permits.

TASK B.3 ADEQ PERMITTING SERVICES: ANNUAL CONSULTANT shall lead the ADEQ permitting efforts for the existing Ocotillo Recharge Facility and SGC will provide hydrogeologic technical support.

B.3.2 Action Plan and ADEQ Pre-Application Meeting: SGC shall prepare memorandum detailing the Plan of Action to modify/amend the relevant permits. The plan will include specific work to be accomplished in developing maximum recharge capacities, conducting supporting analyses, preparing hydrologic study report and supporting ANNUAL CONSULTANT in preparing permit application. Meeting shall be held to review the Plan of Action and obtain City concurrence.

ANNUAL CONSULTANT shall attend one (1) pre-application meeting with ADEQ to present and discuss the project. Materials may include technical memorandums (proposals) outlining the approach to the analysis of maximum recharge capacity and slides for inclusion in presentation materials.

B.3.3 Aquifer Protection Permit Major Modification: ANNUAL CONSULTANT shall prepare the necessary major permit modification application and technical materials necessary to modify the City's existing Ocotillo ASR Well Facility Aquifer Protection Permit (APP). SGC shall prepare hydrological data analysis necessary to support application to modify current APP permits. Work will include the

documentation of analytical studies of ASR well recharge rates and water level response. In addition the relocation of Monitor Well OW-MW2 will be evaluated and a new location selected to maximize the annual recharge capacity of the facility. SGC will utilize and adapt the ADWR SRV Groundwater Flow Model to conduct and document Hydrologic Feasibility, Unreasonable Harm and Area Of Impact (AOI) analysis required by the USF Application Guide (May 2013). Draft applications sections shall be submitted for review and comment and SGC shall make any agreed changes. Work will include documentation of injection rates and water level response to recharge. SGC will conduct and document the Discharge Impact Area (DIA) analysis required for the increased recharge volume utilizing the ADWR SRV Groundwater Flow Model. Draft study report shall be submitted for review and comment. Following review and comments, agreed changes shall be incorporated and submitted as a final hydrologic study report.

B.3.4 Administrative Completeness Review Meeting: ANNUAL CONSULTANT shall arrange for and attend the Administrative Completeness meeting as required by ADEQ during the APP Process. The Engineer shall prepare the necessary agenda and support material to assist ADEQ in the Administrative Review Process.

B.3.5 ADEQ Coordination: Monitor status of the permitting process, coordinate with ADEQ as necessary, and provide additional requested information, review and comment on the draft permit.

NOTE: Actual permit fees are unknown therefore an allowance of \$23,500 is included for ADEQ and ADWR Permitting.

TASK B.4 CONSTRUCTION DOCUMENTS: Preparation of the contract documents will be provided under this task. The following subtasks have been estimated based on the anticipated drawing list.

B.4.1 Preparation of 60% Plans: Prepare preliminary (60%) construction documents (plans only) for the Recharge Facility and Recharge Pump Station Expansion. The 60% plans shall include the following detailed design areas for the ASR well site:

- Civil: Site plan, Grading and Drainage plans, and piping locations (including cable and conduits for fiber optic lines).
- ASR Well Mechanical: Constant speed above ground well pumps, recharge flow control valve, discharge piping, valves, and piping apputenances.
- Recharge Pump Station Mechanical: Variable speed above ground vertical turbine pumps, discharge piping, valves, and piping apputenances.
- Electrical and Instrumentation: Preliminary Process & Instrumentation Diagrams.

Five (5) hardcopies and one (1) PDF format on CD of the preliminary 60% plans will be submitted for review to the City's Development Services Division and Municipal Utilities Department. One review meeting will be conducted to discuss any comments received from the City.

B.4.2 Preparation of 90% Plans and Specifications (Agency Review Set): Prepare preliminary (90%) construction documents including plans and specifications. The plans shall incorporate the comments received on the 60% submittal. Six (6) hardcopies and one (1) PDF format on CD of the 90% plans and specifications will be submitted for review. An Engineer's Opinion of Probable Costs will be prepared based upon the 90% plans and specifications. A review meeting will be conducted with the City to review and discuss all comments received on the 90% Plans.

B.4.3 Preparation of 100% Plans and Specifications: The final 100% plans and specifications will be prepared incorporating City's and Maricopa County Environmental Services Department's (MCESD's) comments. Six (6) hardcopies and one (1) PDF and one (1) CADD format on CD set of permit plans

and specifications will be provided with one (1) Mylar hardcopy of the Plans cover sheet. An Engineer's Opinion of Probable Costs will be prepared based upon final plans and specifications.

TASK B.5 MCESD AND CITY PERMITTING SERVICES

B.5.1 MCESD ATC: One set of the agency review plans and specifications will be submitted to the MCESD for non-expedited review to obtain the Approval To Construct (ATC). One review meeting will be conducted to discuss any comments received from the County.

NOTE: A \$2,525 allowance has been included based on the MCESD review fees estimated for the project (non-expedited). Approval Of Construction (AOC) submission is not included within this scope of services.

B.5.2 City Development Services Permits & Approvals: ANNUAL CONSULTANT shall submit the Agency Review Plans, Drainage Report, and plan review applications and documents to the City's Development Services Division for Building, Site, and Civil Plan review approvals. ANNUAL CONSULTANT shall also provide additional information as requested by from City plan reviews and staff.

NOTE: It is assumed that all City permit fees for the project will be paid directly by the City and thus are not included within this scope of services.

TASK B.6 WELL DRILLING DESIGN AND WELL EQUIPPING BID SERVICES: Associated hydrogeologic services will be performed by Clear Creek and SGC as identified above in Task B.2 and B.3. Clear Creek's Project Manager and Principal Hydrogeologist shall attend startup and kickoff meeting with ANNUAL CONSULTANT and City. The purpose of the meeting will be to establish formal lines of communication, develop a schedule for this task, and to discuss placement and design considerations for the new wells. The meeting will also be used to discuss well drilling and installation logistics such as permits and work hours, need for sound barriers, the utilization of mud pits versus above ground tanks, disposal of drill cuttings, routing of well development and aquifer testing water, etc. Clear Creek shall prepare preliminary Well Drilling specifications for four ASR Wells. Incorporate the City's comments and prepare final Well Drilling Specifications for bidding.

Two separate bid phases are anticipated for this project. One will be for the ASR well drilling effort and one will be provided for the project equipping effort. Clear Creek shall assist in these tasks.

B.6.1 Pre-Bid Conferences: Attend one pre-bid conference for the well drilling effort and one for the equipping effort to answer bidder questions pertaining to the Contract Documents.

B.6.2 Prior Approval Review / Addenda: Review equipment submittals presented for prior approval (according to the City's requirements) and prepare addenda required to clarify or modify the Contract Documents. Receive and respond to bidder inquires after each pre-bid conference.

B.6.3 Attend Bid Openings & NOI Initial Permitting: Attend each bid opening, review bids, and make recommendation for award.

Clear Creek will prepare Notice Of Intent (NOI) to Drill applications upon award of driller. Well shall be initially permitted as Hydrological Testing Wells and applications will be submitted to City for review and signature. Completed and signed applications shall be submitted to ADWR with appropriate application fees. Clear Creek shall track permitting process thru ADWR to ensure timely issuance of drill authorization.

TASK C – MINOR MODIFICATION TO TUMBLEWEED RECHARGE FACILITY APP

The City also desires to have the flexibility to recharge permeate water produced by the City's RO Facility at the Tumbleweed Recharge Facility. ANNUAL CONSULTANT shall coordinate with ADEQ to amend the existing Tumbleweed Recharge Facility APP to add this flexibility.

C.1 ADEQ PERMITTING: For purposes of this Scope of Services, the level of effort assumed is based on a minor amendment to the Tumbleweed APP Permit. ANNUAL CONSULTANT will lead the ADEQ permitting efforts for the Tumbleweed Recharge Facility and SGC will provide hydrogeologic technical support.

C.1.1 ADEQ Pre-Application Meeting: ANNUAL CONSULTANT shall arrange for and attend a pre-application meeting with ADEQ to present and discuss the project. Materials may include technical memorandums (proposals) outlining the approach to the analysis of maximum recharge capacity and slides for inclusion in presentation materials.

C.1.2 Aquifer Protection Permit Minor Modification: ANNUAL CONSULTANT shall prepare the necessary minor permit modification application and the technical materials necessary to modify the City's existing Tumbleweed Recharge Facility Aquifer Protection Permit. SGC shall prepare hydrological data analysis necessary to support application to modify current APP permits.

C.1.3 ADEQ Permit Coordination: Monitor status of the permitting process, coordinate with ADWR as necessary, and provide additional requested information, review and comment on the draft permit.

NOTE: Actual permit fees are unknown therefore an allowance of \$23,500 is included in the fee proposal for ADEQ and ADWR Permitting.

NOTE: ANNUAL CONSULTANT direct labor to be paid for actual hours services provided at preapproved annual rates. SGC and Clear Creek services to be paid at cost for hourly services actually provided at preapproved rates in amount not to exceed established allowances. An amount of \$1,814 for supplemental services, as needed, is included in the Clear Creek fee. A Miscellaneous Reimbursable expenses allowance for printing, mileage, etc. for \$4,850 is included and shall be paid at direct cost. An Owner's Allowance of \$5,000 is included.

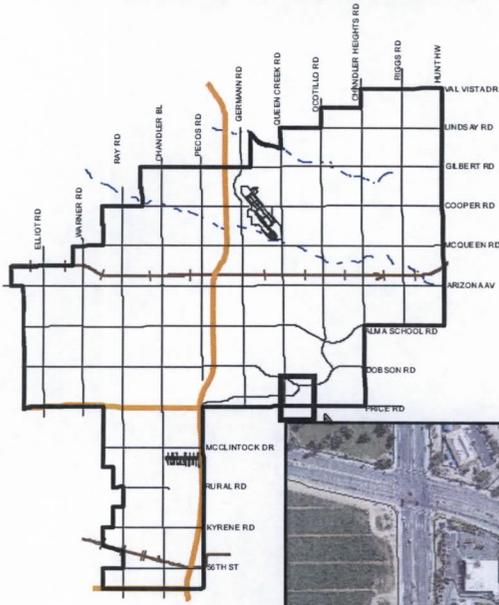
**EXHIBIT B
FEE SCHEDULE**

TASK	TASK DESCRIPTION	SUBTOTAL
I. DIRECT LABOR		
TASK A - CONSOLIDATE RECORD DRAWING OF EXISTING INFRASTRUCTURE		
A.1 CONSOLIDATED RECORD DRAWINGS		
A.1.1	Data Collection & Utility Coordination	\$ 7,400
A.1.2	Site Survey	\$ 1,100
A.1.3	Coordinate Utility Investigations	\$ 2,600
A.1.4	ASR Recharge Facility – Field Investigations / As-built Verification	\$ 8,240
A.1.5	Draft - Overall Consolidated Record Drawings	\$ 16,460
A.1.6	Final - Overall Consolidated Record Drawings	\$ 7,880
SUBTOTAL TASK A		\$ 43,680
TASK B – OCOTILLO RECHARGE FACILITY EXPANSION		
B.1 BASIS OF DESIGN		
B.1.1	Draft Basis of Design Report	\$ 33,220
B.1.2	Final Basis of Design Report	\$ 9,020
B.1.3	Drainage Report and Preliminary Plan	\$ 11,820
B.2 ADWR PERMITTING		
B.2.1	ADWR Pre-Application Meeting	\$ 3,590
B.2.2	Prepare Underground Storage Facility Permit Modification	\$ 21,460
B.2.3	Water Storage Permit	\$ 14,000
B.2.4	ADWR Permit Coordination	\$ 11,240
B.3 ADEQ PERMITTING		
B.3.1	Action Plan and ADEQ Pre-Application Meeting	\$ 6,990
B.3.2	Aquifer Protection Permit Major Modification	\$ 38,820
B.3.3	Administrative Completeness Review Meeting	\$ 5,290
B.3.4	ADEQ Permit Coordination	\$ 11,240
B.4 CONSTRUCTION DOCUMENTS		
B.4.1	Preparation of 60% Plans	\$ 111,920
B.4.2	Preparation of 90% Plans and Specifications (Agency Review Set)	\$ 128,440
B.4.3	Preparation of 100% Plans and Specifications	\$ 64,840
B.5 MCESD AND CITY PERMITTING SERVICES		
B.5.1	MCESD ATC	\$ 5,530
B.5.2	City Development Services Permits & Approvals	\$ 6,780
B.6 WELL DRILLING DESIGN AND WELL EQUIPPING BID SERVICES		
B.6.1	Pre-Bid Conferences	\$ 4,300
B.6.2	Prior Approval Review / Issue Addenda	\$ 7,410
B.6.3	Attend the Bid Openings & NOI Initial Permitting	\$ 1,100
SUBTOTAL TASK B		\$ 497,010
TASK C - MINOR MODIFICATION TO TUMBLEWEED RECHARGE FACILITY APP		
C.1 ADEQ Permitting		
C.1.1	ADEQ Pre-Application Meeting	\$ 3,890
C.1.2	Aquifer Protection Permit Minor Modification	\$ 12,720

TASK	TASK DESCRIPTION	SUBTOTAL
C.1.3	ADEQ Permit Coordination	\$ 6,460
SUBTOTAL TASK C		\$ 23,070
TOTAL DIRECT LABOR		\$ 563,760
II. ALLOWANCES AND SUBCONSULTANTS FEES		
A.1.2	Surveying Services Allowance - Recharge Facility	\$ 7,500
A.1.3	Potholing Services Allowance @ \$600 EA pothole	\$ 4,800
B.2, B.3, & C.1	ADEQ and ADWR Permitting Fee Allowance (South Well Field Permitting)	\$ 23,500
B.5.1	MCESD Fees Allowance	\$ 2,525
B.2&B.3	Southwest Groundwater (Hydrogeologic Sub) - Permitting Support Only**	\$ 54,110
B.2, B.3, & B.6	Clear Creek Associates (Hydrogeological Sub) - Well Design Only	\$ 19,992
-	Misc. Reimbursable Expenses (Printing, mileage, etc.) Allowance	\$ 4,850
-	Owner's Allowance	\$ 5,000
TOTAL - ALLOWANCES AND SUBCONSULTANT FEES		\$ 122,277
TOTAL FEE		\$ 686,037



CHANDLER WATER RECLAMATION CAMPUS EXPANSION PROJECT NO. WW1407-201



MEMO NO. CP14-066

