



**PURCHASING ITEM
FOR
COUNCIL AGENDA
Memo No. CA13-106**

1. Agenda Item Number:
21
2. Council Meeting Date:
January 24, 2013

TO: MAYOR & COUNCIL
THROUGH: CITY MANAGER

3. Date Prepared: January 7, 2013
4. Requesting Department: Municipal Utilities

5. SUBJECT: Airport Water Reclamation Facility (AWRF) Expansion – GMP 4.

6. RECOMMENDATION: Staff recommends Council award GMP No. 4 to McCarthy Building Companies, Inc. for the AWRF Expansion to 22 MGD, Project No. WW1013-401, in an amount not to exceed \$50,211,557 for a revised total contract amount not to exceed \$93,114,156, contingent upon written notification from Intel and appropriate funding.

7. BACKGROUND/DISCUSSION: The AWRF is located on Queen Creek Road, west of McQueen Road. Design and construction of new wastewater treatment capacity will accommodate Intel's plant expansion on Dobson Road. A Public Information meeting was held with residents neighboring the facility to discuss the expansion project and the measures taken to mitigate impact to the surrounding community. The expansion project began in June 2012 and will be completed in the summer of 2014. The facility's treatment capacity will increase from 15 MGD to 22 MGD. The overall project is being released for construction in phases with each phase of the project requiring Council approval.

GMP 4 includes construction of pre-stage, aeration, flocculation, and chlorine contact basins as well as addition of filters and bulk chemical facilities. The scope of work includes structural steel, electrical, and painting of several structures.

8. EVALUATION: On May 24, 2012, Council approved a Construction Manager at Risk construction services contract to McCarthy Building Companies, Inc. The contractor was selected in accordance with State law for Construction Manager at Risk services. Staff reviewed the scope of work, billing rates, and total fee for this project, compared them to historical costs, and determined they are reasonable.

9. FINANCIAL IMPLICATIONS:

Cost:	\$12,319,854	GMP No. 1 – Original Contract
	\$23,237,877	GMP No. 2
	\$ 7,344,868	GMP No. 3
	<u>\$50,211,557</u>	GMP No. 4
	\$93,114,156	Total

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>
615.3910.6814.6WW022	Wastewater Operating	Water Reclamation Facility Expansion	Yes	\$50,211,557

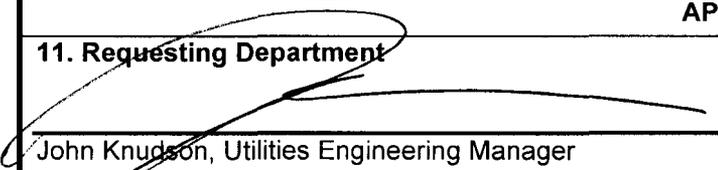
10. PROPOSED MOTION: Move Council award GMP No.4 to McCarthy Building Companies, Inc. for the AWRF Expansion to 22 MGD, Project No. WW1013-401, in an amount not to exceed \$50,211,557 for a revised total contract amount not to exceed \$93,114,156, contingent upon written notification from Intel and appropriate funding, and authorize the Mayor to sign the contract documents.

ATTACHMENTS: Contract, Location Map

APPROVALS

11. Requesting Department

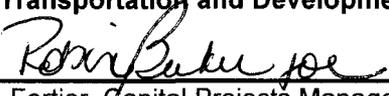
13. Department Head

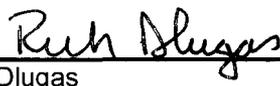

John Knudson, Utilities Engineering Manager

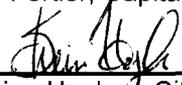

Dave Siegel, Municipal Utilities Director

12. Transportation and Development

14. City Manager

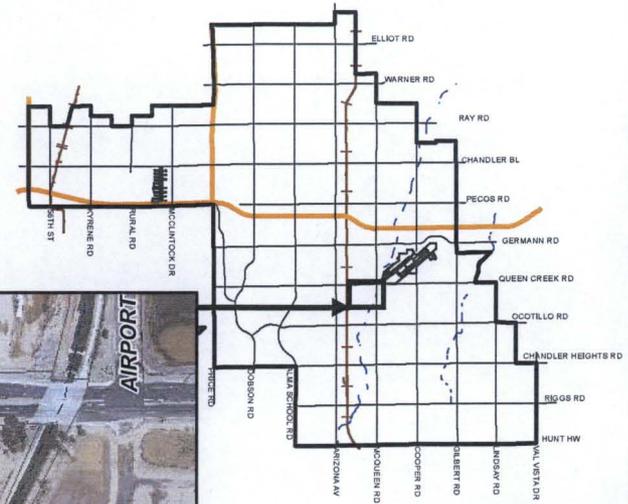
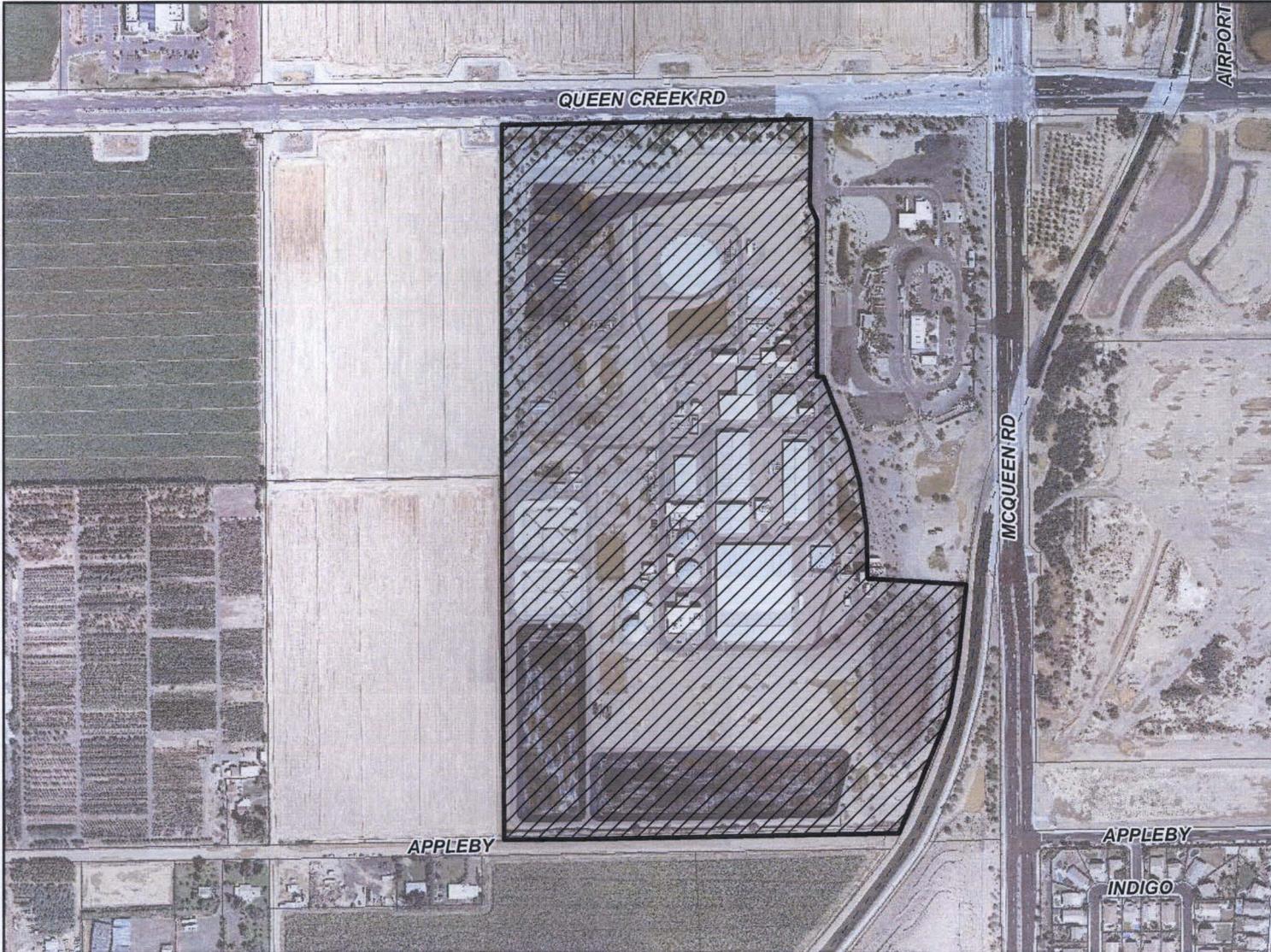

Bob Fortier, Capital Projects Manager


Rich Dlugas


Sheina Hughes, City Engineer



AIRPORT WATER RECLAMATION FACILITY EXPANSION TO 22 MGD PROJECT NO. WW1013-401



MEMO NO. CA13-106

 PROJECT SITE



NTS
ChenGIS

CITY OF CHANDLER
CHANGE ORDER NUMBER 3
DATE 01/24/13

This Change Order is not valid until signed by both the City and the Contractor. Signature of the Contractor indicates agreement herewith, including any adjustments in the Contract Price or Contract Time.

PROJECT NAME: AWRF Expansion to 22 CONTRACTOR: McCarthy Building Companies, Inc.
PROJECT NO: WW1013-401 COST ACCT #: _____
USER DEPT: Municipal Utilities NTP DATE: 06/08/12

TO: McCarthy Building Companies, Inc.
(CONTRACTOR)

YOU ARE DIRECTED TO MAKE THE FOLLOWING CHANGES TO THIS CONTRACT:
(Describe changes in detail and/or reference attached cost breakdown sheet.)

Contractor shall furnish all labor, materials, and equipment for the Pre-Stage Basin, Aeration Basins, Flocculation Basins and Filters, Chlorine Contact Basin, Bulk Sodium Hypochlorite Facility, Chemical Storage Facility; and for structural and electrical conduit installation for proposed Secondary Clarifiers, Washwater Equalization Basin, Reclaimed Water Reservoir, Dewatering Building, Dewatering Biofilter, and Pre- Stage Basin Odor Control; all as more specifically described in Exhibits A and B, attached hereto and incorporated herein by reference.

ORIGINAL CONTRACT AMOUNT: \$12,319,854.00
CURRENT CONTRACT PRICE PRIOR TO CHANGE ORDER: \$42,902,599.00
(Including previous change orders)
NET CHANGE RESULTING FROM THIS CHANGE ORDER: \$50,211,557.00
REVISED CONTRACT PRICE INCLUDING THIS CHANGE ORDER: \$93,114,156.00
CHANGE ORDER IS % OF ORIGINAL CONTRACT AMOUNT: 407.57%

CONTRACT TIME OR COMPLETION DATE PRIOR TO THIS CHANGE ORDER (Including previous change orders): 452
DAYS DATE

NET CHANGE RESULTING FROM THIS CHANGE ORDER: 0
DAYS

REVISED CONTRACT TIME AND COMPLETION DATE: 452
DAYS DATE

THE ABOVE IS AGREED TO BY:

McCarthy Building Companies, Inc.
CONTRACTOR By: [Signature] Date: 01/14/13

CITY OF CHANDLER (Date & Name of Owner Dept. verbal approval): John Knudson 1/5/13

For Change Orders of less than \$50,000 and 10% of contract price:

Title: _____ Signature _____
Department Director or Designee By: _____ Date _____
Or (but not both)

For Change Orders of \$50,000 or more, or 10% or more of contract price:

MAYOR Date: _____
Approved by Council on: _____
Approved as to form: _____ Date: _____
City Attorney [Signature] Attest: City Clerk _____

EXHIBIT A SCOPE OF WORK

SCHEDULE

Chandler AWRF Expansion to 22 MGD is a multi-phased project with work starting June 1, 2012 and final completion by September 1, 2014. GMP 4 is anticipated to have a notice to proceed by January 15, 2013. Final completion date for GMP 4 shall be September 1, 2014 to coincide with the final completion of the future phases.

SUMMARY OF WORK

The Work to be accomplished under these Contract Documents for Package 4 consists of furnishing all labor, materials, and equipment for the Pre-Stage Basin, Aeration Basins, Flocculation Basins and Filters, Chlorine Contact Basin, Bulk Sodium Hypochlorite Facility, and Chemical Storage Facility. In addition, The Contractor shall furnish labor and materials for structural and electrical conduit installation for proposed Secondary Clarifiers, Washwater Equalization Basin, Reclaimed Water Reservoir, Dewatering Building, Dewatering Biofilter, and Pre- Stage Basin Odor Control.

GENERAL

- 1) All applicable gross receipts taxes are included at the current known tax rate which is 65% of 8.8% (6.6% State + 0.7% County + 1.5% City) less the value of anticipated State of Arizona tax exempt work.
- 2) Costs for General Contractor Performance and Payment bonds were submitted as part of the GMP 1 submittal. No additional costs associated with these bonds have been included with this submittal.
- 3) Costs associated with Builders Risk Insurance were submitted as part of the GMP 1 submittal. No additional costs associated with Builders Risk Insurance premiums have been included with this submittal.
- 4) Subcontractors over \$250,000 will provide performance and payment bonds or enter into McCarthy contractor default insurance program.
- 5) Suppliers over \$500,000 will provide supply bonds or enter into McCarthy contractor default insurance program.
- 6) Building permits and plan check fees are excluded. Permits normally procured by the Contractor such as: Storm Water Pollution Prevention Plan, Earthmoving, Dust Control Plan, and Confined Space Entry Plan have been included.
- 7) Architectural and engineers fees are excluded.
- 8) The jobsite temporary electrical and water utility usage costs are by owner.
- 9) Costs associated with preconstruction phase services have not been included in this GMP.
- 10) Water testing of the structures will occur after backfill.
- 11) Costs associated with partnering outlined in Specification Section 01011 have not been included.

- 12) Costs associated with materials, soils, and compaction testing and inspections are to be paid by the Owner.
- 13) Specification Section 01010 1.4B. (Methane gas) is not included.
- 14) Specification Section 01010 1.5D. (Bird strike) is not included.
- 15) Specification Section 01012 – Plant Operation During Construction, subsection 1.1C. Plant staff shall be available for all plant outages.
- 16) Specification Section 01012 – Plant Operation During Construction, subsection 1.1D. All required shutdowns will be coordinated with plant staff.
- 17) Specification Section 01012 – Plant Operation During Construction, subsection 1.5B. All required shutdowns will be coordinated with plant staff.
- 18) Specification Section 01013 – Engineering Services has not been included.
- 19) Specification Section 01300 – Submittals. McCarthy requests a twenty-one (21) day turnaround in lieu of the thirty-five (35) day turnaround on submittals outlined in subsection 1.4B.
- 20) Specification Section 01300 – Submittals. Requirement of subsection 1.5C is not included.
- 21) Specification Section 01300 – Submittals, subsection 1.7B. Training will be allowed based on approved preliminary submittal of O & M manuals.
- 22) Specification Section 01300 – Submittals, subsection 1.12A. Record drawings will be made available for review on-site.
- 23) Specification Section 01300 – Submittals, subsection 1.14B. Standard CMAR contract forms will be utilized for the project.

1E MOPOS – PACKAGE 4

- 24) Both of the RAS Isolation Vaults (Sheet C-3.1/3.2) located at PSB #2 are assumed to be able to be installed prior to the startup of PSB #2.
- 25) FRP Stop Plates & Guides located in the existing Headworks Influent Channel is assumed to be existing.

1F GENERAL REQUIREMENTS – PACKAGE 4

- 26) All costs associated with materials testing and inspections are by The Owner.

2H YARD PIPING

- 27) All bedding and backfill is included per the approved 15 MGD submittals.
- 28) ABC bedding and shading is included to 12" above the top of pipe for all underground utilities.
- 29) Sheet G-3 Sewer Note 6 - Pipe is included as SDR26.
- 30) Sheet G-3 Sewer Note 7 - All bedding and backfill is included per the approved 15 MGD submittals.
- 31) The 54" EFF, 48" RW, and 48" SE CCP is included with bulkheads for future connections (this is the same as the 15 MGD upgrade).
- 32) The 60" WW and 48" SE CCP are included as cement mortar lined.

- 33) The 54" EFF and 42" RW connections to the existing are included as shown on the Plans with a butt-strap and cut-to-fit piece.
- 34) The 42" RW and 48" RW tees are excluded as shown on C5.17. Flanges are included to match the 15 MGD upgrade.
- 35) The 48" SE wyes with 30" flanges are excluded as shown on C5.11. Two (2) 30" flanges are included to match the 15 MGD upgrade.
- 36) All PW and NPW tie-ins to the existing will be completed with hot taps.

2K FENCING

- 37) Sliding gate "Color shall match Project metal finishes or as directed by Engineer" - priced as Tiger-Drylac Series 49 powder coating, or approved equal.
- 38) Includes new fence at locations shown. No existing fence to be reused.
- 39) Does not include PVC coating. Match existing.

2L DRILLED PIERS

- 40) Includes that all shaft excavation will be in unobstructed soils in-the-dry and does not include the use of drilling slurry or wet construction methods.

2Z ON-SITE & OFF-SITE SRP DUCT BANK – PACKAGE 4

- 41) Does not include any work off-site for the SRP duct bank.

11G FLOCCULATORS

- 42) Installation was not included in GMP #3. Cost associated with this work category is for installation only.

11H FILTER UNDERDRAINS & MEDIA

- 43) Installation was not included in GMP #3. Cost associated with this work category is for installation only.

11J MULTISTAGE CENTRIFUGAL BLOWERS

- 44) Installation was not included in GMP #3. Cost associated with this work category is for installation only.

11K RAPID MIXERS

- 45) Installation was not included in GMP #3. Cost associated with this work category is for installation only.

11R GRAVITY BELT THICKENERS

- 46) Specification 11800-2.3A, 2C - Gravity Section Sidewalls Need to be Removed to Replace Wear Strips.

- 47) Specification 11800 - 2.3A,11D - Minimum Pressure Capacity is 85 PSI, Not 80 PSI as Specified
- 48) Specification 11800-2.4B,1 - Thickener PLC Control Panel Enclosure to be 316SST NEMA 4x Per 16050-1.8C.
- 49) Specification 11800-2.5A - Thickener PLC Panel Enclosure to be 316SST NEMA 4X Per 16050-1.8C.

11S SUBMERSIBLE MIXERS AND ACCESSORIES

- 50) Field Performance Testing per ISO21630:2007 is not included.
- 51) Each mixer shall be of the direct drive design. No gears are included.

11V ODOR CONTROL EXHAUST FANS

- 52) Specification section 11334-1.4A,15 is not included as it is not applicable to the scope of supply.

11W ROTARY BLOWER

- 53) Specification 11371-2.2F - UBI Utilizes Piston Ring Seals in Lieu of Lip Seals for Sealing the Bearing Housing
- 54) Specification 11371 - 2.3B - CCS Type Inlet Filters are Not Designed to Provide Silencing Function. UBI Utilizes a Specifically Engineered Inlet Air Filter/Silencer That Meets the Specified Intent
- 55) Specification 11371-2.3L - Lubrication Fittings Imply That the Drive End Bushings are Grease Lubricated. The Quoted Bearings Are Splash Oil Lubricated
- 56) Specification 11371-2.5B - UBI Offers a Maximum Value of 85 DBA at 3FT. Free Field.

15F PROCESS PIPE – PACKAGE 4

- 57) The 'CAR' diffusers are included as drilled holes only. It is assumed that Veejet nozzles are not needed.
- 58) The 'CAR' wall penetration at PSB #1 is included as a core drill with modular mechanical seals. The over-core with a grouted back sleeves is not included.
- 59) 15066-3.2C - Exception is taken to the prohibition of field welds. Field welds will be kept to a minimum, however will be required to install new piping systems. Included as part of this work category is the costs for a 3rd party inspector as a quality assurance measure.
- 60) Stainless steel flange connections to cast iron butterfly valves that are lugged or have tapped bolt holes will not be dielectrically isolated.
- 61) All 'NPW' and 'CAR' pipe supports at the Aeration Basins are provided with a HDG finish.
- 62) Stainless steel fittings at the Scum Pump Station area included as 150# socket weld fittings.

16B ELECTRICAL – PACKAGE 4

- 63) In Slab rough in for Pre stage, Aeration basins , floc filter provided in previous packages (GMP-2)
- 64) Lighting installation including wiring to edge of slab included for Pre stage in Package 2
- 65) Option for Security gate UG conduit includes utilizing existing conduits from Admin to manhole near gate.
- 66) Drawing E 6.1 Disconnects and in slab rough in and duct bank for CCB fans part of GMP-2

CONTRACT DOCUMENTS

SPECIFICATIONS

Titled: Wilson Engineers Project No. 11-024
City of Chandler Airport WRF – Expansion to 22 MGD
City Project No. WW-1013-201
PACKAGE 4 SPECIFICATIONS
Agency Review Submittal
Date: September 9, 2012

Titled: Wilson Engineers Project No. 11-024
City of Chandler Airport WRF – Expansion to 22 MGD
City Project No. WW-1013-201
MASTER SPECIFICATIONS
Package 1 – Issued For Construction
Date: May 8, 2012

DRAWINGS

Titled: Wilson Engineers Project No. 11-024
City of Chandler
Airport WRF – Expansion to 22MGD
Package 4 – Agency Review Set
September 2012

DRAWING LIST

Drawing #	Description	Dated
	Cover Sheet	Sep-12
G-2	Sheet Index	Sep-12
G-3	General Notes - 1	Sep-12
G-4	General Notes - 2	Sep-12
G-5	Process and Site Legend	Sep-12
G-6	Liquid Stream Process Flow Schematic	Sep-12
G-7	Solid Stream Process Flow Schematic	Sep-12
G-8	Hydraulic Profile	Sep-12
C-1.0	Survey Control Sheet	Oct-12
C-2.0	Overall Site Plan Keymap with Grid	Sep-12
C-2.1	Partial Site Plan 1	Sep-12
C-2.2	Partial Site Plan 2	Sep-12
C-2.3	Partial Site Plan 3	Sep-12
C-2.4	Partial Site Plan 4	Sep-12
C-2.5	Partial Site Plan 5	Sep-12
C-2.6	Partial Site Plan 6	Sep-12
C-2.7	Partial Site Plan 7	Sep-12
C-2.8	Partial Site Plan 8	Sep-12
C-2.9	Partial Site Plan 9	Sep-12
C-2.10	Partial Site Plan 10	Sep-12
C-2.11	Partial Site Plan 11	Sep-12
C-2.12	Partial Site Plan 12	Sep-12
C-2.13	Partial Site Plan 13	Sep-12
D-1.0	Overall Demolition Plan Keymap with Grid	Sep-12
D-1.1	Partial Demolition Plan 1	Sep-12
D-1.2	Partial Demolition Plan 2	Sep-12
D-1.3	Partial Demolition Plan 3	Sep-12
D-1.4	Partial Demolition Plan 4	Sep-12
D-1.5	Partial Demolition Plan 5	Sep-12
D-1.6	Partial Demolition Plan 6	Sep-12
D-1.7	Partial Demolition Plan 7	Sep-12
D-1.8	Partial Demolition Plan 8	Sep-12
D-1.9	Partial Demolition Plan 9	Sep-12
D-3.0	Aeration Basin Blower Building Demolition Plan	Sep-12
D-4.1	Secondary Clarifier Splitter Box - Demolition Plan and Section	Sep-12
D-5.2	Flocculation Basin and Filter Demolition Plan	Sep-12

C-3.0	Overall Yard Piping Plan Keymap with Grid	Sep-12
C-3.1	Partial Yard Piping Plan 1	Sep-12
C-3.2	Partial Yard Piping Plan 2	Sep-12
C-3.3	Partial Yard Piping Plan 3	Sep-12
C-3.4	Partial Yard Piping Plan 4	Sep-12
C-3.5	Partial Yard Piping Plan 5	Sep-12
C-3.6	Partial Yard Piping Plan 6	Sep-12
C-3.7	Partial Yard Piping Plan 7	Sep-12
C-3.8	Partial Yard Piping Plan 8	Sep-12
C-3.9	Partial Yard Piping Plan 9	Sep-12
C-3.10	Partial Yard Piping Plan 10	Sep-12
C-3.11	Partial Yard Piping Plan 11	Sep-12
C-3.12	Partial Yard Piping Plan 12	Sep-12
C-4.0	Overall Grading and Drainage Site Plan and Keymap with Grid	Sep-12
C-4.1	Grading and Drainage Site Plan - 1	Sep-12
C-4.2	Grading and Drainage Site Plan - 2	Sep-12
C-4.3	Grading and Drainage Site Plan - 3	Sep-12
C-4.4	Grading and Drainage Site Plan - 4	Sep-12
C-4.5	Grading and Drainage Site Plan - 5	Sep-12
C-4.6	Grading and Drainage Site Plan - 6	Sep-12
C-4.7	Grading and Drainage Site Plan - 7	Sep-12
C-4.8	Grading and Drainage Site Plan - 8	Sep-12
C-4.9	Grading and Drainage Site Plan - 9	Sep-12
C-4.10	Grading and Drainage Site Plan - 10	Sep-12
C-4.11	Grading and Drainage Site Plan - 11	Sep-12
C-4.12	Grading and Drainage Site Plan - 12	Sep-12
C-4.13	Sections	Sep-12
C-4.14	Storm Drain Profiles	Sep-12
C-5.10	Yard Piping Profiles 10	Sep-12
C-5.11	Yard Piping Profiles 11	Sep-12
C-5.12	Yard Piping Profiles 12	Sep-12
C-5.13	Yard Piping Profiles 13	Sep-12
C-5.14	Yard Piping Profiles 14	Sep-12
C-5.15	Yard Piping Profiles 15	Sep-12
C-5.17	Yard Piping Profiles 17	Sep-12
C-5.18	Yard Piping Profiles 18	Sep-12
C-5.19	Yard Piping Profiles 19	Sep-12
C-5.20	Yard Piping Profiles 20	Sep-12
C-6.5	Chemical Trench Cross Sections and Details	Sep-12
LA-1.1	Landscape Plan - New Entrance	Sep-12

LA-2.1	Landscape Details	Sep-12
LA-2.2	Gate Detail	Sep-12
P-3.3	Pre-Stage Basin No. 2 Plan	Sep-12
P-3.4	Pre-stage Basin Sections and Details 10	Sep-12
P-3.5	Pre-stage Basin No. 2 Sections 2	Sep-12
P-3.6	Pre-stage Basin No. 1 Modifications	Sep-12
P-3.24	Aeration Basin No. 7, No. 8 & No. 9	Sep-12
P-3.25	Aeration Basin No. 7, No. 8 & No. 9 Upper Plan	Sep-12
P-3.26	Aeration Basin Section A	Sep-12
P-3.27	Aeration Basin Section B	Sep-12
P-3.28	Aeration Basin Miscellaneous Details 1	Sep-12
P-3.29	Aeration Basin Miscellaneous Details 2	Sep-12
P-3.30	Foam Control Spray Details	Sep-12
P-3.31	Aeration Basin Blower Building Plan	Sep-12
P-3.32	Aeration Basin Blower Building Sections and Details	Sep-12
P-4.1	Secondary Clarifier Splitter Box Plan and Sectionw	Sep-12
P-4.11	Secondary Clarifier No. 7 and No. 8 Pipeline Connections 1	Sep-12
P-4.12	Secondary Clarifier No. 7 and No. 8 Pipeline Connections 2	Sep-12
P-4.42	Secondary Clarifier Scum Pump Station No. 3 Plan and Section	Sep-12
P-5.2	Flocculation Basin and Filter Overall Plan	Sep-12
P-5.3	Flocculation Basins - Plan & Sections	Sep-12
P-5.4	Filter Basin Plan	Sep-12
P-5.5	Filter Basin Sections 1	Sep-12
P-5.6	Filter Basin Sections 2	Sep-12
P-5.7	Rapid Mixer Basin Plan, Section and Details	Sep-12
P-5.8	Washwater Equalization Basin No. 2 Pipeline Connections	Sep-12
P-6.2	Chlorine Contact Basin Plan	Sep-12
P-6.3	Chlorine Contact Basin Sections	Sep-12
P-6.4	Bulk Sodium Hypochlorite Facility Plan, Sections and Details 1	Sep-12
P-6.5	Bulk Sodium Hypochlorite Facility Plan, Sections and Details 2	Sep-12
P-7.2	Sludge Holding Tank No. 5 Plan	Sep-12
P-7.3	Sludge Holding Tank No. 5 Section and Detail	Sep-12
P-7.4	Sludge Holding Tank No. 5 - Sections	Sep-12
P-7.5	Sludge Holding Tank No. 5 Sections and Details	Sep-12
P-7.11	Thickener Feed Pump Station Plan, Section and Detail	Sep-12
P-8.1	Thickener Building Blower Room Plan	Sep-12
P-8.2	Thickener Building Blower Room Section	Sep-12
P-8.3	Gravity Belt Thickener Plan and Section	Sep-12
P-8.4	Polymer Feed Area Plan and Detail	Sep-12
P-8.11	Thickened WAS Pump Station Plan and Details	Sep-12

P-8.12	Thickend WAS Pump Station Sections	Sep-12
P-9.1	Dewatering Building Pipeline Connections	Sep-12
P-9.2	Dewatering Building Sections	Sep-12
P-9.3	Belt Press Pump Station Pipeline Connections	Sep-12
P-10.1	Reclaimed Water Reservoir No. 4 Lower Plan	Sep-12
P-10.2	Reclaimed Water Reservoir No. 4 Upper Plan	Sep-12
P-10.3	Reclaimed Water Reservoir No. 4 Sections and Details	Sep-12
P-11.5	Pre-Stage Basin No. 2 Odor Control Plan and Sections	Sep-12
P-11.6	Pre-Stage Basin No. 1 Odor Control Plan and Section	Sep-12
P-11.7	Chemical Storage Facility Plan and Section	Sep-12
P-13.1	Typical Details 1	Sep-12
P-13.2	Typical Details 2	Sep-12
P-13.3	Typical Details 3	Sep-12
P-13.4	Typical Details 4	Sep-12
P-13.5	Typical Details 5	Sep-12
P-13.6	Typical Details 6	Sep-12
P-13.7	Typical Details 7	Sep-12
P-13.8	Typical Details 8	Sep-12
P-13.9	Typical Details 9	Sep-12
P-13.10	Typical Details 10	Sep-12
P-13.11	Typical Details 11	Sep-12
P-13.12	Typical Details 12	Sep-12
P-13.13	Typical Details 13	Sep-12
P-13.14	Typical Details 14	Sep-12
A-9.1	Dewatering Building Architectural Schedules	Sep-12
A-9.2	Dewatering Building Floor Plan	Sep-12
A-9.3	Dewatering Building Roof Plan	Sep-12
A-9.4	Dewatering Building Exterior Elevations	Sep-12
A-13.1	Architectural Typical Details 1	Sep-12
A-13.2	Architectural Typical Details 2	Sep-12
A-13.3	Architectural Typical Details 3	Sep-12
S-1	General Structural Notes 1	Sep-12
S-2	General Structural Notes 2	Sep-12
S-3	General Structural Notes 3	Sep-12
S-4	General Structural Notes 4	Sep-12
S-5	Typical Details 1	Sep-12
S-6	Typical Details 2	Sep-12
S-7	Typical Details 3	Sep-12
S-8	Typical Details 4	Sep-12
S-9	Typical Details 5	Sep-12

S-10	Typical Details 6	Sep-12
S-13	Typical Details 7	Sep-12
S-14	Typical Details 8	Sep-12
S-3.28	Aeration Basin Canopy Column Layout Plan	Sep-12
S-4.1	Secondary Clarifier Overall Plan	Sep-12
S-4.2	Secondary Clarifier Foundation Plan	Sep-12
S-4.3	Secondary Clarifier Sections and Details 1	Sep-12
S-4.4	Secondary Clarifier Sections and Details 2	Sep-12
S-4.5	Secondary Clarifier Canopy Column Layout Plan	Sep-12
S-4.6	Secondary Clarifier Canopy Framing Plan	Sep-12
S-4.7	RAS/WAS Pump Station Plan at EI 1196.12 and Foundation Plan	Sep-12
S-4.8	RAS/WAS Pump Station Plan at EI 1211.50 and Details	Sep-12
S-4.9	RAS/WAS Pump Station Upper Plan	Sep-12
S-4.10	RAS/WAS Pump Station Sections and Details 1	Sep-12
S-4.11	RAS/WAS Pump Station Sections and Details 2	Sep-12
S-4.12	Secondary Clarifier Scum Pump Station No. 3 Plans and Section	Sep-12
S-4.13	Secondary Clarifier Splitter Box Foundation and Upper Plan	Sep-12
S-4.14	Secondary Clarifier Splitter Box Sections and Details 1	Sep-12
S-4.15	Secondary Clarifier Splitter Box Sections and Details 12	Sep-12
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**EXHIBIT B
FEE**

WC	CSI DESCRIPTION	Package 4 GMP 11/15/12	Tax Exempt Breakout	Self Perform	Subcontractor / Supplier
1A	Mechanical MOPO's				
1B	General Requirements				
1C	Demolition				
1E	MOPO's - Package 4	\$962,119		\$962,119	McCarthy
1F	General Requirements - Package 4	\$1,246,468		\$1,246,468	McCarthy
1G	General Works & Specialties - Package 4	\$23,310		\$23,310	McCarthy
2A	Earthwork & Paving				
2B	Yard Piping				
2C	Fences & Gates				
2D	Site Concrete				
2E	Landscaping & Irrigation				
2F	Shoring				
2G	Earthwork & Paving - Package 4	\$2,171,601			CSW Contractors
2H	Yard Piping - Package 4	\$8,642,458	\$2,700,000		CSW Contractors
2I	Landscaping & Irrigation - Package 4	\$21,915			AAA Landscape
2J	Shoring - Package 4	\$732,159		\$119,000	Schnabel - McCarthy
2K	Fences & Gates - Package 4	\$28,240			Associated Fence
2L	Drilled Piers	\$28,900			Gil's Drilling
2M	On-Site & Off-Site SRP Duct Bank				
2Z	On-Site & Off-Site SRP Duct Bank - Package 4	(\$229,565)			
3A	Concrete		(\$2,271,120)		Revised Arizona Tax Ruling
3B	Reinforcing Steel				
3C	Clay Liners				
3D	Structural Precast Concrete - Package 4	\$474,066			Coreslab
3E	Concrete & Reinforcing Steel - Package 4	\$5,704,155		\$5,704,155	McCarthy
4A	Masonry				
4B	Masonry - Package 4	\$62,726	\$25,000		Stone Cold Masonry
5A	Structural & Miscellaneous Steel				
5B	Structural Steel & Misc Metals - Package 4	\$1,253,170		\$1,185,522	McCarthy- Schuff Steel
5C	Pre-Engineered Metal Canopies	\$966,727			Colton Construction
6A	Rough Carpentry				
7A	Roofing & General Sheet Metal				
7B	Sealants				
7C	Roofing & Gen Sheet Metal - Package 4	\$57,269	\$12,000		Progressive Roofing
7D	Sealants - Package 4	\$4,297			Den-Mark Specialties
8A	Doors, Frames & Hardware				
8B	Glass & Glazing				
8C	Overhead Doors				
8D	Translucent Panels				
8E	Doors, Frames & Hardware - Package 4	\$15,452	\$3,000		Walters & Wolf
8F	Glass & Glazing - Package 4	w/ 8E			
8G	Overhead Doors - Package 4	\$18,938	\$8,000		Ralph Wilkens
8H	Translucent Panels - Package 4	\$4,403	\$3,000		Ralph Wilkens
9A	Painting				
9B	Industrial Coatings/ Concrete Liner				
9C	Painting & Coatings - Package 4	\$407,067			OPTCO

11A	Full Port Valve and Actuator				
11B	Process Equipment				
11C	Temporary Odor Control				
11D	Fine Screens				
11E	Carbon Source Metering Pumps				
11F	Equipment Installation - Bid Package 2				
11G	Flocculators	\$12,232		\$12,232	McCarthy - Hayward Gordon
11H	Filter Underdrains and Media	\$253,905		\$253,905	McCarthy - FB Leopold
11I	Hydraulic Gates				
11J	Multi Stage Centrifugal Blowers	\$45,845		\$45,845	McCarthy - Lamson
11K	Rapid Mixers	\$5,676		\$5,676	McCarthy - Chemineer
11L	Hydraulic Gates - Package 4	\$137,772	\$72,375	\$137,772	McCarthy - Waterman
11M	Low Flow Propeller (IMLR) Pumps	\$186,541	\$132,773	\$186,541	McCarthy - FLYGT
11N	Progressive Cavity Pumps	\$126,073	\$88,030	\$126,073	McCarthy - Netzsch
11O	Aerations Systems	\$1,023,538	\$252,450	\$1,023,538	McCarthy - Sanitaire
11P	Polymer Feeders	\$99,369	\$63,454	\$99,369	McCarthy - Fluid Dynamics
11Q	Chemical Metering Pumps & Appurtenances	\$63,619	\$35,888	\$63,619	McCarthy - Wallace & Tiernan
11R	Gravity Belt Thickeners	\$324,299	\$215,213	\$324,299	McCarthy - Ashbrook
11S	Submersible Mixers & Accessories	\$630,343	\$446,465	\$630,343	McCarthy - FLYGT
11T	Grinder Pumps	\$35,639	\$15,901	\$35,639	McCarthy - FLYGT
11V	Odor Control Exhaust Fan	\$41,266	\$14,850	\$41,266	McCarthy - Hartzell/ Siemens
11W	Rotary Lobe Blowers	\$62,604	\$38,345	\$62,604	McCarthy - Universal
13A	FRP Tanks				
13B	PIG Receiving Station				
13C	Extruded Flat Panel Covers				
13D	Geodesic Domes	\$175,562	\$131,672		Temcor
13E	Above Ground FRP Tanks	\$127,572	\$95,679	\$127,572	McCarthy - Midwestern Fabricator
13F	Equipment Supervision	\$1,117,931			McCarthy
14A	Bridge Cranes				
15A	Process Piping				
15B	HVAC & Plumbing				
15E	Fire Protection				
15F	Process Piping - Package 4	\$2,115,375	\$600,000	\$1,761,239	McCarthy
16A	Electrical				
16B	Electrical - Package 4	\$5,209,097	\$500,000		K&F Electric
17A	Process Controls				
17B	Process Controls - Package 4	\$585,081			Invensys
	Delta Drawing Allowance	\$2,500,000			
	Total Direct Cost	\$37,475,214	\$3,182,972	\$14,178,106	
	General Conditions	\$2,154,831			
	Contractor's Contingency	\$1,981,502			
	Design Completion Contingency	\$0			
	Construction Fee	\$1,778,874			
	Self Perform Markup	\$2,126,716			
	General Liability & Umbrella Insurance	\$435,592			
	Builders Risk Insurance	\$0			
	Performance & Payment Bonds	\$0			
	Escalation Contingency	\$0			
	Gross Receipts Tax - 65% of 8.8%	\$2,446,430			
	Total Construction Cost	\$48,399,160			

	Owner Contingency	\$587,397			
	COC Headworks Allowance	\$0			
	Unidentified Utilities/ Underground Facilities	\$1,225,000			
	Project Total Cost	\$50,211,557			