Utilities CIP Up-Dates as of May 1, 2010

Priority	Issue	Action Steps	Due Date	Assigned To	Comments
1	Reclaimed Water	Create Reclaimed Water Master Plan		Utilities	

Updates (date entries):
05-01-06 – Currently underway, compiling documents
10-02-06 – Working with Stantec Eng. and laying out needs for the Towns reclaimed water infrastructure
11-01-06 – Currently completing the scope of work, compiling developers contributions
12-01-06 – Final pieces of the scope of work is being assembled, one developer altered their contribution to the system that change is be factored into the overall scope.
01-01-07 – The month of January an Engineering Firm will be put under contract for the development of the overall reclaimed Water Master Plan
02-01-07 –An Engineering Firm has not been selected to date.
03-05-07– The scope of work is being developed.
04-01-07– Stantec has compiled the scope of work and is submitting the design cost estimates.
05-31-07– Cost estimated for engineering was reevaluated and will be submitted to council for approval.
06-30-07– Still waiting on the revised contract.
07-31-07– Contract submitted for approval, tabled by council. Setting up a Worksession with council to discuss projects scope.
08-31-07–Council comments from worksession were incorporated into engineering scope of work, submitting to Council for approval.
09-30-07–Resubmitting to Council for approval in October
10-31-07– Council approved at Oct. 23 council meeting. Stantec is working through the first phase of the Reclaimed Wastewater Master Plans scope of work.
11-30-07– Stantec is compiling remaining information in first phase of scope of work and requesting a "kick-off" meeting with Town staff December 11th
12-31-07– Kick–off meeting was held; Engineer is gathering information and compiling a stake holders list to conduct a meeting. Will be supplying a schedule of events by late January
01-31-08 – Obtained contact information for Stantec on potential reclaimed water users
02-29-08 – Met with Robin Weesner who is a sub consultant to Stantec on the groundwater evaluation portion of the Plan.
03-31-08 – Stantec has stopped work on the reclaimed water master plan until the funding issue is resolved for the wastewater plant.
05-01-08 – Stantec has stopped work on the reclaimed water master plan until the funding issue is resolved for the wastewater plant.
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Submitted Staff Report recommending Board approval of engineering services to design for a new sewer line from the arsenic removal system to the cemetery property line by Mold N Graphics. This new sewer line will allow resident and commercial properties to hook up to municipal sewer service in that area.
09-01-09 – No further progress on reclaimed water master plan or wastewater treatment plant design or funding. Council approved for SWI to engineering services to design a new sewer line from the arsenic removal system to the cemetery property line by Mold N Graphics. This new sewer line will allow resident and commercial properties to hook up to municipal sewer service in that area. The survey and design work has started
10-01-09 – No further progress on reclaimed water master plan or wastewater treatment plant design or funding. SWI is designing a new sewer line from the arsenic removal system to the cemetery property line by Mold N Graphics. This new sewer line will allow resident and commercial properties to hook up to municipal sewer service in that area. The survey is done and the design work is almost completed. I hope to have a set of plans and bid specs by the end of October 2009.
11-01-09 – No further progress on reclaimed water master plan or wastewater treatment plant design or funding. SWI has designed a new sewer line from the arsenic removal system to the cemetery property line by Mold N Graphics. The survey, design work, and bid specs are completed and we have submitted a permit application and plans to Yavapai County for their review. The next step is to have Council approve putting the project out for bid.
12-01-09 – No further progress on reclaimed water master plan or wastewater treatment plant design or funding. SWI has designed a new sewer line from the arsenic removal system to the cemetery property line by Mold N Graphics. The survey, design work, and bid specs are completed and we have submitted a permit application and plans to Yavapai County for their review. After receiving comments from the County and updating the plans the next step is to secure the necessary easements for the sewer line and the telephone line. We will then prepare a Staff Report and request Council approval before putting the project out for bid.
1-01-10 – No further progress on reclaimed water master plan or wastewater treatment plant design or funding. The new sewer line survey, design work, and bid specs are completed and we have submitted an NOI To Discharge to Yavapai County for their review. After receiving the NOI

approval from the County and securing the necessary easements we will then prepare a Staff Report for Council approval before going out for bid.
2-01-10 – No further progress on reclaimed water master plan or wastewater treatment plant design or funding. The new sewer line survey, design work, and bid specs are completed and we have submitted an NOI To Discharge to Yavapai County for their review. We have received the Approval to Construct from Yavapai County and are in the process securing the necessary easements. I will prepare a Staff Report for Council updating them on the project and bid progress.
3-01-10 – No further progress on reclaimed water master plan or wastewater treatment plant design or funding. The new sewer line survey, design work, bid specs, and NOI To Discharge have been approved by Yavapai County. We have received the Approval to Construct from Yavapai County and have secured the necessary easements.
4-01-10 – No further progress on reclaimed water master plan or wastewater treatment plant design or funding. The new sewer line design plans and NOI To Discharge have been approved by Yavapai County and we have received the Approval to Construct from Yavapai County. We are securing the necessary easements for the phone line and are waiting for Parsons (Mojave JOC) to submit their bid.
5-01-10 – No further progress on reclaimed water master plan or wastewater treatment plant design or funding. The new sewer line extension cost proposal from Mojave JOC (Parsons) was reviewed and approved by the Council at the April 27, 2010 meeting. Construction should start in May 2010.

Utilities CIP Up-Dates as of May 1, 2010

Priority	Issue	Action Steps	Due Date	Assigned To	Comments
1	Water System Improvements	Main Street Water Line Project Clarkdale Minerals Water Line Project Mescal Well		Utilities	

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Updates (date entries):

01-31-08 – Johansen Construction began replacing the waterline in Main Street from Ninth Street to Seventh and approximate 200' waterline extension completed by Jim Plas on Lemar Lane to serve Lee Marthaler (extension paid for by Lee Marthaler). Clarkdale Minerals has begun installing approx. 4,150' of 8" waterline to service their property. Met with Basin Water on Arsenic removal system for Mescal Well

02-29-08 – Johansen finishing up Main Street Project. They have installed conduit in the same trench for the waterline that can be used by the Town for fiber optic in the future. Project should be complete by end of March. Jess Mulcaire still working on Clarkdale Minerals waterline. The tap has been made in the 12" line and he is installing 8" pipe. Willdan working on Mescal Well design. Arrangements have been made to operate the well for Arsenic testing March 3rd and 4th.

03-31-08 – Johansen finishing up Main Street water line project. The new water line has passed the bactee test. They are having a hard time getting asphalt, but should be done in the next couple weeks. Jess Mulcaire still working on Clarkdale Minerals waterline (approx. 50% complete). Met with Basin Water and Willdan on Arsenic removal for the Mescal Well. The well has been sampled and a preliminary proposal has been received that will be taken to Council for consideration. Tiffany replacing six leaking fire hydrants in system.

05-01-08 –Clarkdale Minerals waterline (approx. 90% + complete) has been installed and contractor is in the process of testing the mains. Basin Water did a presentation on the arsenic removal system for the Mescal Well at the 4/22/08 Council Meeting. This well has been sampled and a preliminary proposal from Basin water has been received and was presented to Council for consideration. The Mescal Well proposal is currently on-hold. Tiffany replacing six leaking fire hydrants in system and four more hydrants were delivered and misc. fittings are on backorder to complete the hydrant replacement project.

06-01-08 –Clarkdale Minerals waterline (approx. 95% + complete) has been installed and contractor has tested the mains. The Mescal Well proposal is currently on-hold. Tiffany has replaced six leaking fire hydrants in system and four more hydrants are scheduled to be replaced starting the week of 6/3/08.

08-01-08 –Clarkdale Minerals waterline has been completed and the contractor has tested the mains and related infrastructure. The fire department has flow tested all the new hydrants on the CMC water main. The Mescal Well proposal is currently on-hold. Tiffany has replaced all ten (10) leaking fire hydrants in system and we have identified one additional leaking hydrant which will be scheduled for replacement by the end of 8/08. The new hydrant has been purchased and is in stock.

09-01-08 – Authorized Tiffany Construction to hook up the new 8" DIP water main under 89A to the existing 6" AC water main for Centerville. They will also install a new fire hydrant by the First Baptist Church and loop this new water main with the water main at Mold N Graphics.

10-01-08 – Tiffany Construction completed the connection of the new 8" DIP water main under 89A to the existing 6" AC water main for Centerville and looped this new water main with the existing 6" water main at Mold N Graphics... They also installed a new fire hydrant by the First Baptist Church and ran a new 2" service line and set a new meter for the Baptist Church.

11-01-08 – Contacted Kathy Stevens with the ADEQ to schedule a water system evaluation. This is a first step where problem areas are identified and funding options are examined. One area to be evaluated will be the "twin 5s".

12-01-08 – Worked on arsenic removal system repairs for system start up in December 2008. Working with SWI to prepare the PRV/surge relief unit for bid. Working with ADEQ to schedule the water system evaluation.

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01-01-09 – Arsenic removal system up in early December 2008. Note: this system is ready to be put on-line once the high flows and pressure issues with the Mt. Gate well are addressed. Preparing an RFP for a variable frequency drive (VFD) for the Mt. Gate well. This VFD will eliminate the need to install a PRV/surge relief unit on the Mt. Gate well line and address the flow and pressure problems. Working with ADEQ and Fann Engineering to prepare a water system evaluation.

02-01-09 – Operation of the arsenic removal system is on-hold until a variable frequency drive is installed on the Mt. Gate well. Note: this system is operational and is ready to be put on-line once the high flows and pressure issues with the Mt. Gate well are addressed. Preparing an RFP for a variable frequency drive (VFD) for the Mt. Gate well. Working with ADEQ and Fann Engineering to prepare a water system evaluation. Requesting pricing for emergency water main replacement in certain areas in the Lower Town section of Clarkdale. Numerous water main breaks in those areas have elevated the replacement of certain section of water mains to an emergency status.

03-01-09 – Operation of the arsenic removal system is on-hold until a variable frequency drive is installed on the Mt. Gate well. Note: this system is operational and is ready to be put on-line once the high flows and pressure issues with the Mt. Gate well are addressed. Preparing an RFP for a variable frequency drive (VFD) for the Mt. Gate well. Working with ADEQ and Fann Engineering to prepare a water system evaluation. Requesting pricing for emergency water main replacement in certain areas in the Lower Town section of Clarkdale. Numerous water main breaks in those areas have elevated the replacement of certain section of water mains to an emergency status.

04-01-09 – Operation of the arsenic removal system is on-hold until a variable frequency drive is installed on the Mt. Gate well. Note: this system is operational and is ready to be put on-line once the high flows and pressure issues with the Mt. Gate well are addressed. Preparing an RFP for a variable frequency drive (VFD) for the Mt. Gate well. Working with ADEQ and Fann Engineering to prepare a water system evaluation. Requesting pricing for emergency water main replacement in certain areas in the Lower Town section of Clarkdale. Numerous water main breaks in those areas have elevated the replacement of certain section of water mains to an emergency status.

05-01-09 – The arsenic removal system will be put on-line the week of 5/4/09 due to above limit regulatory sample results for the first quarter of 2009. Note: These sample results were not received until from the lab until the third week of 4/09. This system is being run without the variable frequency drive (VFD) as the Town works through the legal process with the Empire Bond Company. Working with ADEQ and Fann Engineering to prepare a water system evaluation. Requesting pricing for emergency water main replacement in certain areas in the Lower Town section of Clarkdale. Numerous water main breaks in those areas have elevated the replacement of certain section of water mains to an emergency status.

06-01-09 The arsenic removal system is operational and has been on-line since 5/4/09. The Utilities Department is completing final preparations to take over the operations and maintenance of the Town's Water System on 7/1/09.

07-01-09 Contacted SWI Engineering to finish the plans and prepare the bid documents for the installation of a sewer main extension from 89A to the arsenic system backwash tank. Contacted Wildan Engineering to discuss cost estimates and the phasing of the Lower Town Water Main Replacement Project.

08-01-09 Contacted Grand Canyon Pump to discuss the purchase of a variable frequency drive (VFD) for the Mountain Gate well. We are exploring the possibility of installing the VFD in-house. Working on replacing several hydrants that are damaged or not in service. The Utilities will be replacing approximately 10 hydrants. Blue Staking is just about complete in Lower Clarkdale for the Lower Clarkdale Water Main Replacement project. Reviewing proposals received from survey companies for the survey work on the Lower Clarkdale Water Main Replacement project. Received Grand Canyon Pump quote for $2,625.00 to upgrade the booster station and pneumatic system for the Panorama Drive area. Global Water preparing a field test for AMR system. Fann Environmental has completed the Water System Evaluation for ADEQ. This evaluation will be used to prioritize system projects and update the Emergency Operations Plan.

09-01-09 Sent out a Request for Quotes for the purchase of a Danfoss variable frequency drive (VFD) for the Mountain Gate well. We will be

installing the VFD in-house. Ordered fittings and new hydrants to replace several hydrants that are damaged or not in service. The Utilities will be replacing approximately 10 hydrants as part of this project. Blue Staking continues in Lower Clarkdale for the Lower Clarkdale Water Main Replacement project. After reviewing proposals received from survey companies for the survey work on the Lower Clarkdale Water Main Replacement project the survey work has been awarded to SWI. SWI has scheduled the Lower Town survey work to start 9/3/09. Global Water is preparing a field test for AMR system. Fann Environmental has completed the Water System Evaluation for ADEQ and we are waiting to receive our copy of the evaluation and recommendations from ADEQ. This evaluation will be used to prioritize system projects and update our Emergency Operations Plan.

10-01-09 We have ordered a Danfoss variable frequency drive (VFD) for the Mountain Gate well from Grand Canyon Pump. Upon equipment delivery, scheduled around the middle of October, we will be installing the VFD in-house. The Utilities Department replaced two hydrants from the Fire Department's "out of order" list in September 2009. SWI completed locating the existing utilities in Lower Clarkdale for the Lower Clarkdale Water Main Replacement project and I am working with Wildan Engineering to develop plans for the project. I am waiting for final pricing on meters from Global Water prior to authorizing a trial field test for an AMR system. Fann Environmental has completed the Water System Evaluation for ADEQ and we have received our copy of the evaluation and recommendations from ADEQ. There were no unexpected surprises or recommendations outlined in the system evaluation. We will use this system evaluation to prioritize system projects and update our Emergency Operations Plan.

11-01-09 The Danfoss variable frequency drive (VFD) for the Mountain Gate well was installed at the end of October and is operational. SWI received approval to extend the scope of their services and locate the existing utilities along Third North St. to Rincon Dr. and along Vista Lane in Lower Clarkdale. Wildan Engineering is developing plans for the Lower Clarkdale Water Main Replacement Project using SWI's survey work. Global Water has scheduled on November 10, 2009 to replace twenty five (25) meters as part of the AMR system test project, a collector will also be installed on the Club House roof. I have schedule to meet with Fann Environmental on November 10, 2009 to start work on the Water System Energy Audit for ADEQ.

12-01-09 SWI has located the existing utilities along Third North St. to Rincon Dr. and along Vista Lane in Lower Clarkdale as part of our approval for SWI to provide additional services. Wildan Engineering is developing plans for the Lower Clarkdale Water Main Replacement Project using SWI's survey work. On November 10, 2009 Global Water replaced twenty five (25) meters as part of the AMR system test project; a collector will also be installed on the Club House roof. I met with Fann Environmental on November 10, 2009 to start work on the Water System Energy Audit for ADEQ.

1-01-10 Wildan Engineering is working on the plans and bid specs for the Lower Clarkdale Water Main Replacement Project. We will be scheduling public meetings with area residents to solicit comments, provide project information, and provide status updates.

2-01-10 Wildan Engineering is completing the plans and bid specs for the Lower Clarkdale Water Main Replacement Project. The plans should be submitted to Yavapai County in early February 2010 for their review. We will be scheduling public meetings with area residents to solicit comments, provide project information, and provide status updates.

3-01-10 Wildan Engineering has completed the plans and bid specs for the Lower Clarkdale Water Main Replacement Project. The plans were submitted to Yavapai County in early February 2010 for their review and we are awaiting their comments. We will be scheduling public meetings with area residents to solicit comments, provide project information, and provide status updates.

4-01-10 Wildan Engineering has completed the plans and bid specs for the Lower Clarkdale Water Main Replacement Project. The plans were submitted to Yavapai County in early February 2010 for their review. Based on the County's comments Willdan has revised the plans we will make a 2nd submittal for review to Yavapai County in early April 2010. We will be scheduling public meetings with area residents to solicit comments, provide project information, and provide status updates.

5-01-10 Wildan Engineering has completed the plans and bid specs for the Lower Clarkdale Water Main Replacement Project and we have made a

2nd submittal for review to Yavapai County on April 19, 2010. We have scheduled a pre-bid meeting with Parsons, from the Mojave JOC, for May 12, 2010 to discuss the plans and tour the project area. We will be scheduling public meetings with area residents to solicit comments, provide project information, and provide status updates after we review the cost proposal.