



Wastewater System Expansion Program City Council Update

September 8, 2006

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Project sewer connections made to date are as follows:

Completed Projects	4,129
Caribbean Area Sewer	790
Wallapai Area Sewer	481
Pima Area Sewer	276
Total Connections To Date	5,676
Total Projected Connections	25,092*
Percent of Connections Completed	22.6%

(*total projected connections have been adjusted since program start)

General Program Update

On Monday, September 4, 2006 the WWSE Program was featured on the front page of the Arizona Republic. The article gave an excellent overview of the Program and the issues faced by communities bordering the Colorado River. A PDF of the article is attached to this Council Update and article text can be viewed on the [azcentral.com](http://www.azcentral.com) website at: <http://www.azcentral.com/arizonarepublic/news/articles/0904-havasus-sewer0904.html>.

Design Update

A Draft Effluent Master Plan was submitted to the City June 30th. The Plan evaluated the Effluent System as a whole and made recommendations concerning the installation and phasing of systems including but not limited to booster pumps, injection wells, transmission mains and storage facilities. Review comments were provided to AMEC in mid-August by Public Works staff, and AMEC is working toward finalizing this Master Plan report.

Advertisement for the removal of personal grinder pumps and construction of septic system replacements occurred on August 20, 2006. The Bid Opening for this work is scheduled for September 19th with construction anticipated to proceed in late October after Council Award.

Advertisement for the Bombay Pump Station occurred on August 23, 2006. This is the large wastewater pump station located east of SR 95 approximately 1/2 mile south of Palo Verde north. The pump station will accommodate the majority of all wastewater flow pumped to the NRWTP. The Bid Opening is scheduled for September 20th.

AMEC submitted 100% design documents for the Tuquoise sewer collection area to the City on September 8, 2006 for review. After review by City Staff, the documents will be finalized and bid advertisement will take place on October 1st, with a scheduled bid opening on October 25th.

The other Turquoise collection area (Aztec) is scheduled for 100% submittal to LHC on September 25, 2006. After review by City Staff, the documents will be finalized and bid advertisement will take place on October 15th, with a scheduled bid opening on November 8th.

September 11 to September 15

Streets Under Construction

- ✚ Ajo Drive from south of Smoketree Avenue North to west of Pima Drive South
- ✚ Buccaneer Lane from Castaway Drive to end of cul-de-sac
- ✚ Calypso Drive from Acoma Blvd. South to Caribbean Drive
- ✚ Caribbean Drive from Calypso Drive to Nassau Drive
- ✚ Caribbean Drive from Calypso Drive to Nassau Drive
- ✚ Castaway Drive from Nassau Drive to Caravelle Drive
- ✚ Constellation Drive from Hummingbird Drive heading east around Constellation Drive curve to Palo Verde Blvd. South
- ✚ Cosnina Drive from Acoma Blvd. North to Meteor Lane
- ✚ Cosnina Drive from Acoma Blvd. North to Meteor Lane
- ✚ El Rio Drive from Smoketree Avenue North to Ajo Drive
- ✚ Islander Lane from Castaway Drive to end of cul-de-sac
- ✚ Islander Lane from Castaway Drive to end of cul-de-sac
- ✚ Mescal Lane from Smoketree Avenue North to end of cul-de-sac
- ✚ Mescal Loop from Smoketree Avenue North looping back around to Smoketree Avenue North
- ✚ Olive Lane from Smoketree Avenue North to end of cul-de-sac
- ✚ Smoketree Avenue North from Acoma Blvd. North to Pima Drive North
- ✚ Smoketree Avenue North from Acoma Blvd. North to Pima Drive North
- ✚ Smoketree Avenue North from Mescal Loop to Pima Drive North

Construction Update

Program Year 4 Projects

The **Caribbean** area has connected 790 properties. The contractor is progressing on schedule and is about one week from completion of mainline installation. Properties will continue to be connected to the system until the end of October.

The **Wallapai** area has made 481 connections. The contractor may resume pavement milling and mainline installation the week of September 11th if all necessary items have been addressed. Yard restorations and connections are continuing on Widgeon Drive and Cisco Drive and will soon move to lower Cosnina Drive.

The **Pima** area has completed 276 connections. Work continues on Smoketree Avenue North with consistent coordination with the two schools in the area. Water shutoffs have been limited to after school hours. The contractor will have two mainline crews working on the Pima project within three weeks.

At the **Island Treatment Plant**, Alder Construction continues to lay ductile iron pipe and backfill for the new digester tank. The existing vacuum basin has been demolished. Stairs have been installed in the main valve vault. Air conditioning ducts are being added to the blower building addition and the new electrical building. Both buildings are about 80% complete. Electrical work on the main transformer and the new electrical building and UV structure continues.

The block work has commenced at the dewatering building at the **NRWWTP**. The aeration basin concrete structure is complete and curing. Construction is progressing at the flow equalization basin and the membrane basin. The yard piping is consistently moving forward. The influent pump station wet well walls are complete, and work has begun on the cap. Contracts are in for permanent power, and should be executed this month. UniSource will be installing the infrastructure for the power at the plant and influent pump station soon after the contract is finalized.

On the **North Regional Sewer Force Main Project** installation of the 18-inch reuse line on Lake Drive north on US 95 should be complete by September 15. Work is beginning on installation of the 20-inch force main coming from the London Bridge and Willow Wash Stations. This force main will bore under US 95 and parallel the highway traveling north.

If you have questions about the WWSE Program and the process, please refer to the Frequently Asked Questions section on the WWSE website. The website is linked to the City's site at - <http://ci.lake-havasu-city.az.us/>.

Program Year 3 Projects

All of the home connections have been made and the construction of the three Purple area sewers is substantially complete. Southwind and Indian Peak have been closed out and the El Dorado area sewer project is in the final stages. The contractor is finishing up remaining punch list items and project closeout paperwork.

The 18" Reuse Line constructed in the SR 95 right of way is complete. Minor punch list items and project close out items are all that remain.

Detailed construction information is available on the following pages.

Public Information

Notarized paperwork for the Turquoise area is due to AMEC ASAP. The initial deadline has passed and approximately 50% of property owners have returned the required forms. A reminder postcard has been sent to property owners who have yet to respond. Next steps include a certified letter communicating what will happen if the property is not connected to the citywide sewer as a part of the WWSE Program.

A toll-free number has been developed for the project and can be used by local and part-time residents: 1(866) 40-SEWER (79397). Locally AMEC can be reached at (928) 854-8030.



Detailed Construction Information

PROGRAM YEAR 4 PROJECTS

Caribbean

- Contractor: S2 Contractors, Inc., awarded November 2005.
- Contract Award Amount: \$9,976,000 paid to date: \$6,204,335 (62%)
- Current Contract Value (Including All Change Orders): \$9,976,000
- Connections to Date: 790 of 968 (82%)
- Connections in the last two weeks: 69
- Main Line Sewer: Tested and accepted 47,567 L.F. out of 62,530 L.F. (76%)
- Contract Completion Date: November 2006.
- Schedule: This project is on schedule.
- Change Order Status: No change orders.
- Current Activity: **Mainline Crews** Caribbean Drive from Calypso Drive to Nassau Drive. **Lateral Crews** Calypso Drive from Acoma Blvd. South to Caribbean Drive and Caribbean Drive from Calypso Drive to Nassau Drive. **Connections/Hook-up Crew** Castaway Drive from Nassau Drive to Caravelle Drive and Islander Lane from Castaway Drive to end of cul-de-sac. **Water Service Crew** Islander Lane from Castaway Drive to end of cul-de-sac and Buccaneer Lane from Castaway Drive to end of cul-de-sac.

Wallapai

- Contractor: Western Municipal Construction, awarded December 2005.
- Contract Award Amount: \$9,725,600 paid to date: \$5,469,224 (56%)
- Current Contract Value (Including All Change Orders): \$9,725,600
- Connections to Date: 481 of 766 (63%)
- Connections in the last two weeks: 71
- Main Line Sewer: Tested and accepted 31,847 L.F. out of 54,000 L.F. (59%)
- Contract Completion Date: December 2006.
- Schedule: This project is on schedule.
- Change Order Status: No change orders.
- Current Activity: **Mainline Crews** Cosnina Drive from Acoma Blvd. North to Meteor Lane. **Lateral Crews** None. **Connections/Hook-up Crew** Cosnina Drive from Acoma Blvd. North to Meteor Lane. **Water Service Crew** Constellation Drive from Hummingbird Drive heading east around Constellation Drive curve to Palo Verde Blvd. South. **Paving** None.

Pima

- Contractor: S2 Contractors, Inc.
- Contract Award Amount: \$10,686,949 paid to date: \$3,066,043 (29%)

- Current Contract Value (Including All Change Orders): \$10,686,949
- Connections to Date: 276 of 708 (39%)
- Connections in the last two weeks: 39
- Main Line Sewer: Tested and accepted 19,176 L.F. out of 42,600 (45%)
- Contract Completion Date: February 2007.
- Schedule: This project is on schedule.
- Change Order Status: No change orders.
- Current Activity: **Mainline Crews** Mescal Loop from Smoketree Avenue North looping back around to Smoketree Avenue North; Smoketree Avenue North from Mescal Loop to Pima Drive North; El Rio Drive from Smoketree Avenue North to Ajo Drive; and Ajo Drive from south of Smoketree Avenue North to west of Pima Drive South. **Lateral Crews** Olive Lane from Smoketree Avenue North to end of cul-de-sac and Mescal Lane from Smoketree Avenue North to end of cul-de-sac. **Connections/Hook-up Crew** Smoketree Avenue North from Acoma Blvd. North to Pima Drive North. **Water Service Crew** Smoketree Avenue North from Acoma Blvd. North to Pima Drive North. **Paving** None.

Island Wastewater Treatment Plant Upgrades Phase II

- Contractor: Alder Construction awarded on September 2005.
- Contract Award Amount: \$7,100,000; paid to date: \$4,192,060 (59%)
- Current Contract Value (Including All Change Orders): \$7,100,000
- Contract Completion Date: February 1, 2007.
- Schedule: This project is on schedule.
- Change Order Status: None.
- Current Activity: The blower building addition and the new electrical building are about 80 % complete.

North Regional Sewer Force Main

- Contractor: K.R. Swerdfeger awarded on July 25, 2006.
- Contract Award Amount: \$8,166,163; paid to date \$0 (0%)
- Current Contract Value (Including All Change Orders): \$8,166,163
- Contract Completion Date: May 12, 2007.
- Schedule: This project is on schedule.
- Change Order Status: None.
- Current Activity: 18-inch reuse line on Lake Drive north on US 95 should be complete by September 15.

PROGRAM YEAR 3 PROJECTS

Southwind (closed out) & Indian Peak (closed out)

El Dorado

- Contractor: ERS awarded September 21 2004.
- Contract Award Amount: \$12,904,181.00, paid to date: \$11,159,312.50 (86%)
- Contract Completion Date: October 28, 2005.
- Change Order Status: Final change order has been forwarded to ERS for signatures.
- Current Activity: Final punch list items are being completed and as-built information has been submitted to ADEQ for approval.

North Regional 18" Reuse Project

- Contractor: K.R. Swerdfeger awarded on April 28, 2005.
- Contract Award Amount: \$4,780,894.71, paid to date: \$3,869,608.10 (81%)
- Current Contract Value (Including All Change Orders): \$4,270,352.91
- 18" Reuse Force Main: Installed 22,430 L.F. out of 22,930 L.F. (98%)
- 16" Sewer Force Main: Installed 1565 L.F. out of 1,565 L.F. (100%)
- Contract Completion Date: February 1, 2006.
- Schedule: This project is now substantially complete.