

**TECHNICAL INTERCHANGE MEETING NO. 1  
MEETING MINUTES  
WATER AND WASTEWATER EVALUATION AND WATER SYSTEM  
REHABILITATION AT  
CAMP STANLEY STORAGE ACTIVITY, TEXAS  
FA8903-04-D-8675/DELIVERY ORDER 0022  
PARSONS 745006-01000**

Date: Friday, 19 May 2006  
 Time: 09:30 am – 11:45 am.  
 Place: Camp Stanley Storage Activity (CSSA)  
 Subject: Progress Meeting for Water and Wastewater Data Collection Efforts  
 Planned at CSSA.

Attendees:

Attendee	Organization	Phone
Glare Sanchez	CSSA ENV	(210) 698-5208
Jeff Aston	CSSA ENV / USACE	(210) 336-1270
Tom Tijerina	CSSA Engineering	(210) 295-7473
Chris Beal	CSSA / Portage	(210) 295-7417
Marcel Dulay	Parsons	(512) 471-6202
Eric Dawson	Parsons	(512) 719-6029
Brian Vanderglas	Parsons	(512) 719-6059
Henry Dress	Parsons	(512) 719-6063

\*Minutes prepared by Marcel Dulay, Eric Dawson, and Brian Vanderglas, Parsons

**Draft Comprehensive Work Plan (CWP) Comments**

The meeting was started by reviewing the CSSA comments and Parsons' responses to those comments. The most significant comment related to the CSSA wishes to remove the wastewater data collection effort from the plan. Several options were discussed, and CSSA recognized the cost efficiencies related to collecting some of the wastewater system data concurrent with the water data collection, so it was decided that the CWP would be revised to indicate the collection of wastewater system evaluation data concurrent with the water system data collection efforts, but that no modeling report and no implementation work plan (IWP) would be written with regard to the wastewater system until after the water system rehabilitation

construction was complete. CSSA would like the final CWP to indicate that further evaluation of the wastewater system would be performed if it can be determined that sufficient funds are available to conduct additional engineering evaluations after the implementation of the water system rehabilitation is complete.

There was also some discussion regarding comments that CSSA had already completed a manhole study, and that report could be made available using the Maximo program. While the inspections completed provide added value to Parsons data collection efforts, additional data on the manholes: photos, survey points, hydrant locations, etc. need to be collected for future use. Incorporating the information from the CSSA study will be added into the CWP and the activities planned during the manhole inspections will be further clarified.

Performing a video survey of the wastewater system was deemed unnecessary, but Tom Tijerina was very interested in learning more about the viability of conducting smoke testing of the wastewater lines to identify defects in the system. Parsons agreed to discuss this with their vendor, ADS Environmental Services, and to provide options to CSSA about proceeding with that type of evaluation concurrent with the water system evaluation work.

#### **Planned Data Collection Efforts**

Marcel Dulay summarized the actions or clarifications that needed to be completed or concerns to be addressed to continue making progress on the modeling and evaluation of the system. The current plan is to start the data collection in June. The following presents the list of items that need to be resolved prior to starting the data collection efforts:

Flow monitoring – With the production well CS-9 out of service, and well CS-10 planned to be idled for rehabilitation, this would pose a problem since well CS-10 is a major contributor to the water supply at CSSA, and is critical to include in any data collection conducted for an evaluation of the water system at CSSA.

Flow monitoring – All the flow monitoring points at fire hydrants are in fact pressure monitoring points so no problems are anticipated. If costs for data collection are an issue, it would be possible to move the planned monitoring locations around to reduce the number of metering points.

Flow monitoring – The level in the reservoir will require access to the security gate, and the flow monitoring will need access to the pipe. The likely spot is about 100 yards down-stream in a box that has an abandoned flow meter. CSSA needs to advise about setting up the monitoring at this location.

Flow monitoring – Production well CS-1 is located on a different military facility. CSSA will need to obtain permission from Camp Bullis for ADS to access this location.

Wastewater flow monitoring – Marcel Dulay noted that flows in the wastewater system are very low, which may pose a problem for the monitoring. He suggested that the number of locations be reduced to lower the cost associated with wastewater flow monitoring. He also indicated that he would need to check with

ADS Environmental Services to ensure that they had meters capable of measuring those low flows. At the WWTP, an ultrasonic level detector and velocity meter are planned for use at the weir to measure the effluent velocity and thereby calculate flow.

Wastewater flow monitoring - Marcel recommended removing the monitoring that is currently planned at the lift stations. He indicated the main issue with the system at CSSA is measuring the intrusion of storm-water. As such, he suggested that the two week metering period may not be sufficient to capture a rain event, and that it would be advisable to reduce the number of meter locations and increase the metering days to capture a storm event. Tom Tijerina was interested in the viability of installing a permanent meter or arranging for a longer-term lease. Parsons will look into that with ADS Environmental and provide Mr. Tijerina with some options during a follow-up meeting planned with ADS Environmental (pre-mobilization) prior to them beginning data collection efforts.

Parsons inspections – Field crews will be collecting spot samples within the water system for pressure and chlorine residual prior to initiating data collection and while ADS Environmental is collecting concurrently their two weeks of data on the water system.

### **Model Buildup and Data Input**

Marcel reported that besides the field collected data, we were still compiling the surveys prepared for the building water usage. We estimate that we have received more than 75% of the surveys so some surveys are still outstanding.

Marcel reported that the model is being developed as additional data and surveys are received. Some of the critical data still missing include: pump curves for the existing production well CS-1, a review of the possible areas for future land use development, and confirmation of the operation of the water system (valve positions, record of water use activities during the planned monitoring period, chlorine residual data from past monitoring activities, and confirmation of the potable water pipe diameters. Most of these data could be collected during the follow-up pre-mobilization meeting planned with ADS Environmental Services. Marcel also acknowledged that Parsons had received the water management report for CSSA, but that he has not had time look into it yet.

After all comments related to the draft CWP and data collection efforts were aired, Marcel Dulay and Eric Dawson excused themselves from the meeting to go and perform some preliminary inspections of the proposed metering locations.

### **Water Chlorination and WWTP Disinfection Discussion**

Henry Dress reviewed the comments received from CSSA on the proposed WWTP disinfection system (May 5, 2006) and the proposed potable water system tablet system for well CS-1 and wells CS-9 and CS-10 (received May 16, 2006) along with Parsons responses and clarifications. One of the biggest concerns raised by Tom Tijerina with regard to both systems relates to the transition plan that is from demolition of the old equipment until the new equipment is fully functioning and

commissioned. Mr. Tijerina wants a transition plan that minimizes the amount of down-time for the operational systems, and he wants to be sure that contingencies have been considered. The transition time for the system planned for installation at Building 54 is particularly challenging because the chlorine gas treatment will need to be discontinued to enable the building to be demolished prior to its expansion to accommodate the new tablet skid system.

WWTP tablet chlorinator concerns included:

- Recirculate water in the chlorine detention basin to avoid stagnant water in the corners;
- Relocate Y-strainer so it does not cause mess inside building when blowing down;

Other comments included:

- Use SAD surge suppression along with MOV for maximum effectiveness;
- Reuse existing Bldg. 54 heater in new building;
- Review chlorinator skid size requirements for Bldg. 54 to minimize new building footprint; and
- Install an exhaust fan in CS-1 building room where tablet chlorinator will be located.

Henry Dress indicated that he would incorporate changes to the design drawings based on the discussions with Mr. Tijerina, and would reissue the drawings one last time to CSSA to assure acceptance by CSSA prior to submittal to TCEQ. He would also try to develop a workable transition plan for both the WWTP and the water well system planned at Building 54.

#### **FOLLOW-UP ISSUES AND ACTION ITEMS**

1. Need to uncover the flow metering box downstream from the reservoir.  
The pipe should be exposed for about 6 feet. CSSA will need to advise Parsons if we need to get a contractor to do this.
2. Schedule the pre-mobilization meeting with ADS Environmental to discuss revised plans for data collection (reduced locations, permanent meters, smoke testing, etc.).
3. Parsons will provide a quote for permanent meters and make recommendations for modification to the data collection efforts.
4. Parsons will visit with the individuals at CSSA who manage the Maximo system to make sure that what Parsons does is compatible with that system.



DEPARTMENT OF THE ARMY  
CAMP STANLEY STORAGE ACTIVITY, RRAD  
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***Agenda for TIM#1 Planning Meeting at CSSA  
Water & Wastewater System Evaluation and Water System Rehabilitation  
AFCEE WERC, Task Order 22***

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**Time:** Friday, May 19, 2006; 9:30 am to 11:45 am

**Place:** Camp Stanley Storage Activity, Boerne, Texas, Environmental Office

**Proposed Order of Discussion**

<b>Date &amp; Time</b>	<b>Topic</b>
9:30 am– 10:00 am	Draft Comprehensive Work Plan Comments General Previously completed work at CSSA (manhole inspections) Confirm Effort for Waste Water Evaluations
10:00 am – 10:45 am	Planned Data Collection Activities Overview of planned activities Subcontracted metering locations & Leak detection of Water System Parsons inspections Schedule and coordination requirements
10:45 am – 11:15 am	Model buildup and data input Survey Compliance Future Landuse and other input needs
11:15 am – 11:45 am	Water Chlorination and WWTP disinfection Discussion WWTP submittal comments Water submittal comments Transition strategies Water Chlorination Building Requirements

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