

**IRONHOUSE SANITARY DISTRICT  
WASTEWATER TREATMENT PLANT  
EXPANSION PROJECT**



**CONSTRUCTION MANAGEMENT**

**PROGRESS REPORT No. 5**

**September 2009**

# SUMMARY OF CONSTRUCTION STATUS

**Contractor: Western Water Constructors, Inc**

Base Contract Amount.....	\$ 54,455,209.00
Change Orders Executed.....	\$ 503,077.00
Total Contract Cost.....	\$ 54,958,286.00
Contract Amount Earned.....	\$ 7,991,055.00
Progress Payment for September 2009 (includes retention) .....	\$ 1,445,727.00
Retention Withheld.....	\$ 778,441.00
Previous Progress Payments (excludes retention).....	\$ 6,407,652.00
Estimated Percent Complete.....	<b>15%</b>

**Schedule**

Notice to Proceed.....	April 20, 2009
Base Contract Duration.....	900 consecutive days
Original Completion Date.....	October 6, 2011
Time Extension Authorized.....	0 days
Revised Duration .....	900 consecutive days
Revised Completion Date.....	<b>October 6, 2011</b>
Weather Days (included in base duration) .....	40 days
Weather Days Expended (included in time expended).....	0 days
Time Expended.....	164 Days
Percent Time Expended .....	18.2%

# Construction Manager's Summary

## 1. Schedule

The Baseline Schedule was accepted and the Contractor began work on the first update.

## 2. Work Progress

### GENERAL

#### Piping

Work continued on the installation of the plant influent pipeline and manholes.

Work continued on the 30" overflow lines.

Work began on the 30" SCE line between the headworks and the RAS splitter box.

#### Influent Pump Station

The remaining walls and deck slab were placed. Water testing the structure will begin after the concrete has reached the required strength.

#### Headworks

Below slab conduit and piping was installed below the main structure. The effluent box walls were placed and will be water tested in October.

#### Anoxic/Aeration Basins

Installation and testing of drain lines was completed, rebar installation was completed, and the first of three concrete placements was completed.

#### Solids Handling Building

Work began on the installation of the under slab duct bank and piping.

#### Effluent Pump Station

Excavation began at the effluent pump station.

#### Jersey Island Effluent Pipeline

The remaining HDPE effluent pipe was installed. After the pipe was backfilled, the contractor installed air release valves at the high points along the pipeline. Pre-contact Native American remains were discovered when excavating for one air release valve. Work stopped at this location. The area was secured while the District worked with the Native American Heritage Commission and the most likely descendent of the deceased Native American to remove any additional remains for relocation and reburial. Although work stopped at this location the overall contract schedule was not impacted.

## 3. Contract Changes

Change Order No. 2 was processed this month for sludge removal from the south effluent storage pond in the amount of \$206,646.

#### **4. Testing**

Backfill material placed around the pipelines, subgrades and base rock at the structures were tested to confirm compliance with the project specifications.

Concrete cylinder samples were taken during concrete placement and will be tested for conformance to the project documents after curing.

Previous concrete samples were determined to have lower than specified strength after 28 days of curing. Field core samples will be taken to determine if the concrete meets the specifications.

#### **5. Anticipated Work for Next Month**

Work will begin on the following pipeline installations; 6" BD, 8" UW, 14" SF24" P, and 6" PWs.

Water leak testing of the influent pump station will be completed.

Placement of the remaining concrete slabs at the AA basins will be completed and work will begin on the wall installations.

Complete concrete slabs and begin walls at the RAS and WAS pump stations.

Begin under slab installations at the utility drain pump station.

Begin excavation for the chemical vault.

Place concrete footings at the solids handling building.

# PROJECT ADMINISTRATION

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## SUBMITTAL STATUS

	Received		Returned	
	To Date	September	To Date	Pending
First Time Shop Drawing Submittals	320	17	310	10
Request for Information	248	48	237	11

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## CHANGE ORDER SUMMARY

	Number	Amount
Change Orders Executed in September	1	\$206,646.00
Change Orders Executed to Date	2	\$503,077.00
Percent to Date of Original Contract		0.92%

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## WEATHER RELATED DELAYS

	Days
Base Contract Allowance	40
Weather Related Days in August	0
Weather Related Days to Date	0



Rebar Installation at the Influent Pump Station Deck



Backfilling 30" Overflow Pipeline



Excavation of the Effluent Pump Station



Concrete Finishing at the AA Basing Slab



Below Slab Pipe Installation at the Solids Handling Building



Conduit Installation at the Solids Handling Building