

Water Treatment Plant 4 Monthly Project Status Report

JANUARY 2011



WTP4 Project Status Report

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WTP4 Project Summary As of January 24, 2011

PROJECT SUMMARY

RECENT HIGHLIGHTS

- Native plant relocation occurred on December 4th and 11th (9a.m. – 3p.m.).
- Council Action December 16th – PARD Chapter 26 Hearing.
- Met with Concordia University officials December 16 to discuss the Jollyville Transmission Main.
- Finished Water Pump Station design report reviewed by the City.
- District Judge Yeakel dismissed the Save Our Springs lawsuit against the City of Austin and U.S. Fish and Wildlife (FWS) on December 17th regarding a possible Candidate Conservation Agreement with Assurances (CCAA). Although not related to the lawsuit, the FWS has suspended work on the CCAA pending the City's completion of environmental and engineering analyses and submittal of a formal application by the City. No final decision by the City has been made on submitting a CCAA application.
- Began Concrete work on Clearwells (S-302).
- Completed excavation of Upflow Clarifiers (S-304).
- Public Meeting with Village of Volente on January 18 regarding duct bank construction.
- Field trip to tunnel shaft sites (active work sites and post-construction) with neighborhood representatives and other interested parties being schedules to occur by the end of this month.
- Work packages S-204 (RWPS Retaining Wall) and S-305 (Walls) Conveyances and Misc Site Improvements) Mobilization.
- Preconstruction meetings for S-303 (Filter Complex CSM), and S-305 (Walls, Conveyance, and mlsc. Site Improvements).

UPCOMING HIGHLIGHTS

- Remaining GMP 3D bid openings in January and February.
- Complete excavation of Filter Complex (S-304).
- Begin concrete work on Upflow Clarifiers (S-301).
- Work packages S-101 (Raw Water System) construction mobilization.



**WTP4 Project Status Report
Budget Summary
As of January 24, 2011
(Dollars in Millions)**

Budget Summary		
Budget Baseline \$508M	Estimate at Completion (EAC)	Variance Budget to Estimate at Completion

Engineering & Construction Services

<i>Plant Design</i>	\$ 27.3	27.3	-
<i>Plant Construction Services</i>	21.5	20.9	0.6
<i>Transmission Main Design / Construction Service</i>	23.4	17.9	5.5
<i>Material Testing</i>	-	4.0	(4.0)
Subtotal	\$ 72.2	\$ 70.1	\$ 2.1

Initial Construction Packages

<i>Temporary Preconstruction Fencing</i>	\$ 0.3	\$ 0.3	-
<i>WTP4 Stormwater Facilities</i>	3.5	3.1	0.4
<i>RWPS Excavation & Stormwater Facilities</i>	3.3	3.3	-
<i>Bullick Hollow Road Improvements</i>	0.9	1.0	(0.1)
Subtotal	\$ 8.0	\$ 7.7	\$ 0.3

Construction Manager at Risk Contract

<i>General Conditions (GC / Fee / Pre-Construction)</i>	\$ 51.8	52.1	(0.2)
<i>GMP 1 - Raw Water Intake & Tunnels</i>	55.7	62.0	(6.3)
<i>GMP 2 - Raw Water Pump Station</i>	10.0	10.5	(0.5)
<i>GMP 2A - Raw Water Pump Station Pumps</i>	2.9	4.5	(1.6)
<i>GMP 3A - Early Out Procurement</i>	7.0	7.0	0
<i>GMP 3B - Clearwells & Clarifiers</i>	14.5	14.5	-
<i>GMP 3C - WTP4 Walls, Conveyances & Filters</i>	13.4	16.8	(3.4)
<i>GMP 3D - WTP4 Washwater & Electrical</i>	44.2	47.4	(3.2)
<i>GMP 3E - WTP4 Site Yard Pipe and Ductbank</i>	22.7	21.9	0.8
<i>GMP 3F - Administration and Maintenance Buildings</i>	4.8	3.9	0.9
<i>GMP 4 - WTP4 and RWPS Site Finishes</i>	10.7	8.0	2.8
<i>GMP 5 - Transmission Main System</i>	93.4	103.9	(10.5)
<i>Contract Contingency</i>	27.9	-	27.9
Package Subtotal	\$ 359.0	\$ 352.5	\$ 6.7

Other Costs

<i>Environmental Commissioning</i>	\$ 4.2	\$ 3.2	\$ 1.0
<i>Engineering Applicable from Bull Creek Site</i>	5.6	5.6	-
<i>Offsite Improvements</i>	3.1	3.1	-
<i>City Administration Costs (PM, Inspection, Contract & Real Estate Svcs)</i>	7.2	7.2	-
<i>Value Engineering</i>	-	0.6	(0.6)
<i>Executive Advisor</i>	-	3.1	(3.1)
<i>Outside Counsel</i>	-	0.5	(0.5)
Subtotal	\$ 20.1	\$ 23.3	\$ (3.2)

Land Costs

<i>WTP4 Site</i>	\$ 32.0	\$ 32.0	\$ -
<i>Raw Water Pump Station Site</i>	7.2	7.2	-
<i>Transmission Main Shaft Sites</i>	-	2.2	(2.2)
<i>Easements / Park Land Mitigation</i>	3.7	1.5	2.2
Subtotal	\$ 42.9	\$ 42.9	\$ (0.0)

City of Austin Management Reserve

	\$ 5.8	\$ 0.5	\$ 5.3
Total WTP4 Costs	\$ 508.0	\$ 496.5	\$ 11.2
CMAR Contract Contingency		\$ 12.6	



**WTP4 Project Status Report
Expenditure Summary
As of January 24, 2011
(Dollars in Millions)**

Contract and Expenditure Summary

Contract Amount	Contracted Contingency & Allowances	Expended to Date	Contract Amount Remaining
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Engineering

Carollo - Plant Design	\$ 27.3	\$ -	\$ 24.9	\$ 2.4
Carollo - Plant Construction Services	20.9	-	-	20.9
B&V - Jollyville TM Design	9.5	-	6.4	3.0
LAN - Forest Ridge TM Prelim. Design	0.9	-	0.8	0.1
Material Testing	-	-	-	-
Subtotal	\$ 58.6	\$ -	\$ 32.2	\$ 26.4

Initial Construction Packages

Temporary Preconstruction Fencing	\$ 0.4	\$ -	\$ 0.4	\$ 0.0
WTP4 Stormwater Facilities	3.1	-	2.9	0.2
RWPS Excavation & Stormwater Facilities	3.3	-	2.5	0.8
Bullick Hollow Road Improvements	1.0	-	1.0	-
Subtotal	\$ 7.7	\$ -	\$ 6.7	\$ 1.0

Construction Manager at Risk Contract

General Conditions (GC / Fee / Pre-Construction)	26.8	\$ 1.5	9.0	17.8
GMP 1 - Raw Water Intake & Tunnels	64.4	7.8	-	64.4
GMP 2 - Raw Water Pump Station	-	-	-	-
GMP 2A - Raw Water Pump Station Pumps	-	-	-	-
GMP 3A - Early Out Procurement	7.0	0.1	-	7.0
GMP 3B - Clearwells & Clarifiers	14.5	0.4	-	14.5
GMP 3C - WTP4 Walls, Conveyances & Filters	17.2	2.7	-	17.2
GMP 3D - WTP4 Washwater & Electrical	-	-	-	-
GMP 3E - WTP4 Site Yard Pipe and Ductbank	-	-	-	-
GMP 3F - Administration and Maintenance Buildings	-	-	-	-
GMP 4 - WTP4 and RWPS Site Finishes	-	-	-	-
GMP 5 - Transmission System	-	-	-	-
Package Subtotal	129.8	12.6	9.0	120.8

Other Costs

Environmental Commissioning	\$ 2.1	\$ -	\$ 1.0	\$ 1.1
Engineering Applicable from Bull Creek Site	5.6	-	5.6	-
Offsite Improvements - PEC Relocation at WTP4	1.5	-	-	1.5
City Administration Costs (PM, Inspection, Contract & Real Estate Svcs)	2.6	-	2.6	0.0
Commercial Paper Processing Charge	2.0	-	2.0	-
Greenberg Traurig - Construction Contract Legal	0.2	-	0.1	0.1
Smith, Robinson - Environmental Legal	0.3	-	0.1	0.2
CDM - Value Engineering Plant	0.5	-	0.5	-
Jacobs - Value Engineering Transmission Main	0.1	-	0.1	-
Executive Advisor	3.1	-	0.5	2.6
Subtotal	\$ 18.0	\$ -	\$ 12.5	\$ 5.4

Land Costs

WTP4 Site	\$ 32.3	\$ -	\$ 32.3	\$ -
Raw Water Pump Station Site	7.2	-	7.2	-
Transmission Main Shaft Sites	2.2	-	2.2	0.0
Easements / Park Land Mitigation	-	-	-	-
Subtotal	\$ 41.7	\$ -	\$ 41.7	\$ 0.0

Total WTP4 Costs

\$ 255.8	\$ 12.6	\$ 102.2	\$ 153.6
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WTP4 Project Status Report MBE / WBE Summary

WTP No. 4 MBE/WBE Summary		Solicitation Goals	Approved Compliance Plan	Actual Participation To Date %	Actual Participation To Date \$
PRE-CONSTRUCTION PHASE / GENERAL CONDITIONS				Amt Paid to Date	\$ 8,296,635
	MBE	4.95%	17.90%	7.74%	\$ 641,918
	African American		2.38%	0.05%	\$ 3,949
	Hispanic		10.15%	3.61%	\$ 299,697
	Native American / Asian American		5.37%	4.08%	\$ 338,272
	WBE	2.59%	8.66%	3.36%	\$ 279,024
	Non-Certified Subcontractor		4.74%	4.91%	\$ 407,366
	Primary Subcontractor		68.70%	83.99%	\$ 6,968,327
GMP 3A Early Out Equipment for Construction of WTP 4					
P-304	Upflow Clarifiers			Amt Paid to Date	\$ -
	Zero Goals	0.00%	100.00%	0.00%	\$ -
P-305	Thickening and Washwater Recycle			Amt Paid to Date	\$ -
	Zero Goals	0.00%	100.00%	0.00%	\$ -
P-306	Centrifuge			Amt Paid to Date	\$ -
	Zero Goals	0.00%	100.00%	0.00%	\$ -
P-307	CO2 Equipment			Amt Paid to Date	\$ -
	Zero Goals / Sole Source	0.00%	100.00%	0.00%	\$ -
P-308	Filter Equipment			Amt Paid to Date	\$ -
	Zero Goals / Sole Source	0.00%	100.00%	0.00%	\$ -
GMP 3B Early Out Site Excavation, Clearwells, and Clarifiers for WTP 4					
S-301	Clarifiers 1 & 2 Construction			Amt Paid to Date	\$ 58,664
	MBE	10.43%	12.60%	0.00%	\$ -
	African American	2.97%	3.03%	0.00%	\$ -
	Hispanic	6.86%	8.97%	0.00%	\$ -
	Native American / Asian American	0.60%	0.60%	0.00%	\$ -
	WBE	2.70%	8.20%	0.00%	\$ -
	Non-Certified Subcontractor		29.00%	0.00%	\$ -
	Primary Subcontractor		50.20%	100.00%	\$ 58,664
S-302	Clearwells 1 & 2 Construction			Amt Paid to Date	\$ 190,000
	MBE	10.76%	15.66%	0.00%	\$ -
	African American	2.18%	6.95%	0.00%	\$ -
	Hispanic	8.08%	8.10%	0.00%	\$ -
	Native American / Asian American	0.00%	0.00%	0.00%	\$ -
	WBE	2.55%	4.16%	0.00%	\$ -
	Non-Certified Subcontractor		0.00%	0.00%	\$ -
	Primary Subcontractor		80.18%	100.00%	\$ 190,000
S-304	Structural Excavation and Miscellaneous Site Improvements			Amt Paid to Date	\$ 1,651,180
	MBE	9.98%	18.71%	15.46%	\$ 255,324
	African American	2.40%	7.72%	10.52%	\$ 173,737
	Hispanic	7.38%	10.77%	4.37%	\$ 72,207
	Native American / Asian American	0.20%	0.22%	0.57%	\$ 9,380
	WBE	2.03%	2.08%	2.21%	\$ 36,528
	Non-Certified Subcontractor		3.79%	5.32%	\$ 87,908
	Primary Subcontractor		75.41%	77.00%	\$ 1,271,421
GMP 3C Filters & Upflow Clarifiers 1 & 2 and Walls, Conveyances & Misc Site Work					
S-303	Filters and Upflow Clarifiers 1 & 2			Amt Paid to Date	\$ -
	MBE	5.09%	5.45%	0.00%	\$ -
	African American	1.12%	1.28%	0.00%	\$ -
	Hispanic	3.67%	3.85%	0.00%	\$ -
	Native American / Asian American	0.30%	0.32%	0.00%	\$ -
	WBE	3.12%	4.49%	0.00%	\$ -
	Non-Certified Subcontractor		0.00%	0.00%	\$ -
	Primary Subcontractor		90.06%	0.00%	\$ -
S-305	Walls, Conveyances, & Miscellaneous Site Work			Amt Paid to Date	\$ -
	MBE	6.04%	26.91%	0.00%	\$ -
	African American	1.00%	1.05%	0.00%	\$ -
	Hispanic	4.54%	20.46%	0.00%	\$ -
	Native American / Asian American	0.50%	5.40%	0.00%	\$ -
	WBE	2.70%	4.20%	0.00%	\$ -
	Non-Certified Subcontractor		0.00%	0.00%	\$ -
	Primary Subcontractor		68.89%	0.00%	\$ -



**WTP4 Project Status Report
APPENDIXES**

GMP CONSTRUCTION STATUS REPORTS



WTP4 – Raw Water Pump Station Excavation and Stormwater Facilities Monthly Status Report No. 12 – December 2010

COA CIP No. 6683.013

Contractor: Ranger Excavating, L.P.

Contract Amount: \$3,142,550.00

Approved Change Orders: \$138,065.51

Total Contract Amount: \$3,280,615.51

Scope:

- Excavation of RWPS site: Approx 140,000 CY
- Construction of Underground Detention Pond and above ground Water Quality Pond.
- Establish Site Security with Perimeter Fence

Start Date: 11/6/09

Original Contract Duration: 365 Days

Approved Time Extensions: 61 Days

Current Contract Completion Date:

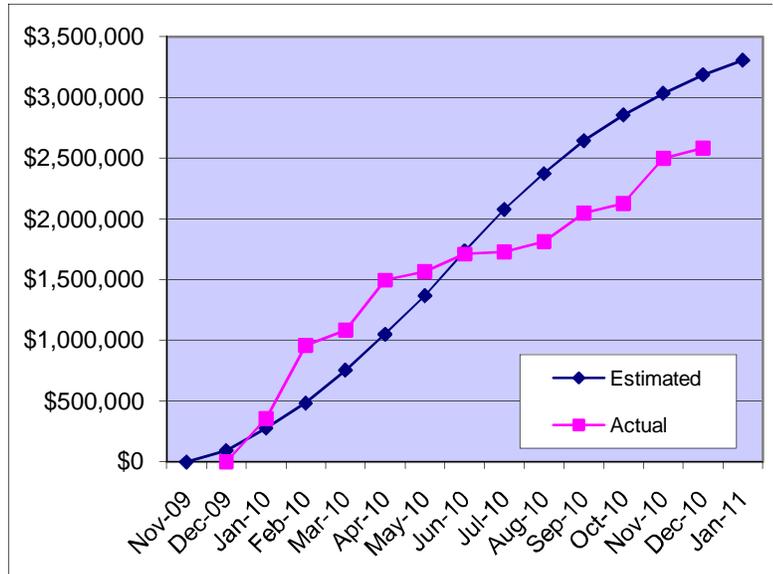
January 6, 2011

Percent Complete Time: 92%

Percent Complete Dollars: 83%

Construction Progress Completed to 12/1/2010:

- To date excavation and haul-off essentially complete.
- Concrete fence being installed.
- Remaining rock bolts being installed
- Detention Pond Boxes in place, with some end walls having been poured.
- Manhole cones being installed.
- Bore and Jack to area inlet has been started.



Change Orders:

- To date, two (2) executed Change Orders, and a total of 1 Contract Modification pending pricing and not yet processed in a Change Order.

Submittals

- To date, 57 Submittals and 19 Resubmittals have been received.

Requests for Information

- To date, 11 RFIs have been received/issued.

Schedule:

- Ranger's November 2010 schedule indicates a completion in January, 2011. The current Contract Final Completion date is January 6, 2011.



All 7x7 Box Culverts placed for UG Detention Pond.



Future location of Raw Water Intake Tunnel Access Shaft.



Underground Detention Pond outfall box.



View of the Bullick Hollow side wall with Shotcrete to be completed.



WTP4 – Plant Stormwater Facilities Monthly Status Report No. 12 – December 2010

COA CIP No. 6683.010

Contractor: FTWoods Construction

Contract Amount: \$2,974,750.00

Approved Change Orders: \$159,957.00

Total Contract Amount: \$3,134,707.00

Scope:

- Construct 7 sets of Stormwater Detention and Water Quality Ponds
- Miscellaneous Site Preparation and Erosion and Sedimentation Controls.

Start Date: 12/7/09

Original Contract Duration: 365 Days

Approved Time Extensions: 91 Days

Current Contract Completion Date:

March 7, 2011

Percent Complete Time: 83%

Percent Complete Dollars: 95%

Construction Progress Completed to 12/1/2010:

- All Individual Pond Milestone Substantial Completion Dates have been obtained.
- Mulch in place.
- Work outlined in Change Order 3 has been completed, including rock berm and ditch armoring.

Change Orders:

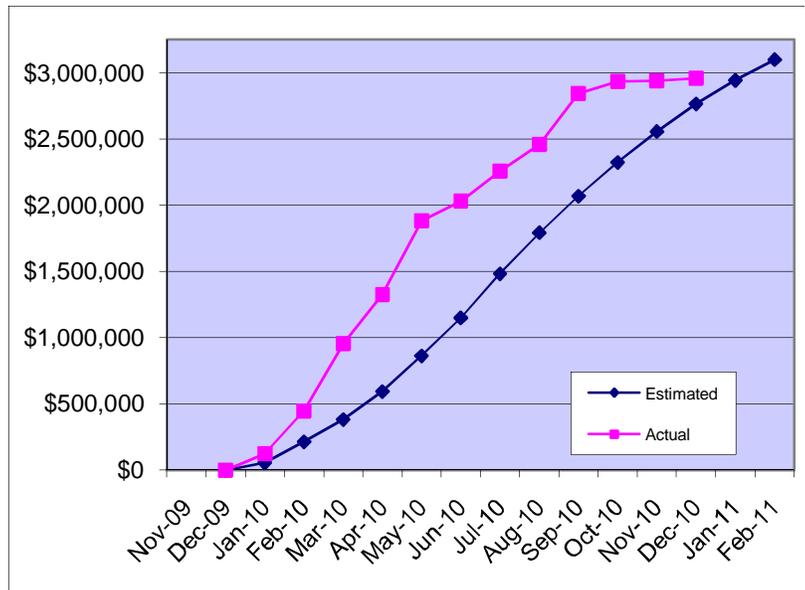
- To date, three (3) executed Change Orders with a total Change in Contract Value of \$159,957.00 and a total of 91 total days.
- 2 additional CMs under review or out for pricing.

Submittals

- To date, 52 Submittals and 14 Resubmittals have been received.

Requests for Information

- To date, 39 RFIs have been received



Construction Schedule:

- FTWoods Construction latest schedule shows a completion date of January 13, 2011. The current Contract Final Completion date is March 8, 2011.
- Milestone 1: Substantially Complete as of 4/23/10.
- Milestone 2: Substantially Complete as of 7/13/10.
- Milestone 3: Substantially Complete as of 9/16/10.
- Milestone 4: Substantially Complete as of 9/30/10.



Water Quality and Detention Pond 7 looking North.



WQ Pond 7 Sedimentation Bay looking West. Showing handrail installation



FTWoods performed armoring of Bullick Hollow Rd. Looking to the East.



Ditch Armoring at Bullick Hollow Rd.



MWH
CONSTRUCTORS



WTP4 – GMP 3B – Excavation & Construction of Clearwells and Upflow Clarifiers Monthly Status Report No. 3 – January 2011

COA CIP No. 6683.019

Contractor: MWH Constructors

Contract Amount: \$22,808,997.00

Approved Change Orders: \$0.00

Total Contract Amount: \$22,808,997.00

Scope: Major Excavation for Clearwells, Upflow Clarifiers (UFCs) and Filters; Major Concrete for Clearwells and UFCs.

Start Date: 7/20/10

Original Contract Duration: 714 Days

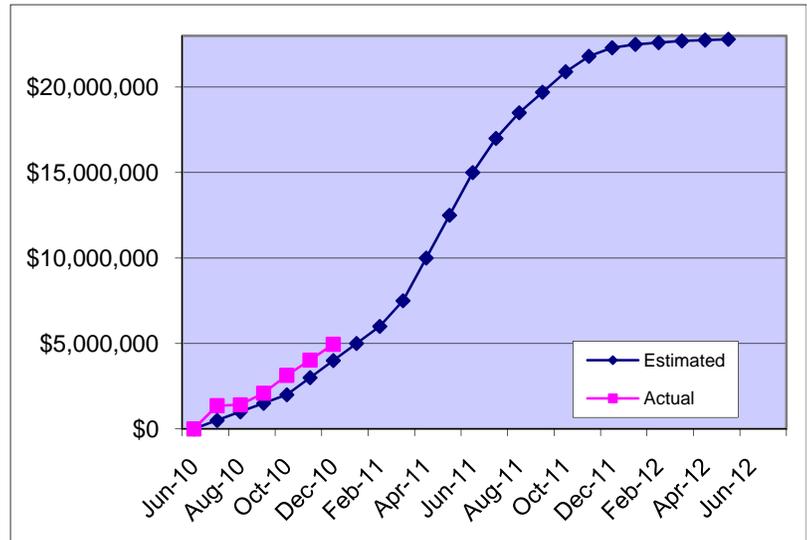
Approved Time Extensions: 0 Days

Current Contract Completion Date:

June, 2012

Percent Complete Time: 21.7%

Percent Complete Dollars: 21.7%



Construction Progress as of 12/1/2010:

S304 Site Excavation and Improvements (Ranger Excavating, LC)

- Excavation for Clearwells complete.
- Excavation for UFC's 1 and 2 complete.
- Excavation for Filter Building approximately 50% complete.
- Retaining Wall L footings and wall concrete complete.

S301 UFCs (Austin Engineering Co.)

- UFC fine grading underway.

S302 Clearwells (Laughlin-Thyssen, Inc.)

- Seal slab approximately 80% complete.
- Clearwell floor slab 8% complete.

Change Orders:

- None to date.

Requests for Information:

- To date, 15 RFIs have been received.

Submittals:

- To date, 115 Submittals and 15 Resubmittals have been received.

Upcoming Milestones:

- Clearwell slab concrete January/February.
- UFC Under-slab piping January/February.



Clearwell 1 and 2 seal slab looking SW.



Upflow Clarifier excavation looking south.



Retaining Wall L near Filter Building.



Excavation for Filter Building.