



Water Treatment Plant 4 Monthly Project Status Reports

May 2012





WTP4 Project Status Report

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WTP4 Project Summary As of April 30, 2012

PROJECT SUMMARY

RECENT HIGHLIGHTS

- **Completed drilling for the Raw Water intake riser**
- **Approved GMP 3G (Administration & Maintenance Buildings)**
- **Completed and transmitted to CMAR the final designs of the finish water pump station**
- **Completed widening of Bullick Hollow Road**
- **Completed site prep and fencing of Austin Energy substation**
- **Mobilized drill for excavation of Jollyville Transmission Main WTP access shaft**
- **Advertised bid for Finish Water and Filter Backwash pumps**
- **Eclipsed 750,000 man hours without a lost time incident**

UPCOMING HIGHLIGHTS

- **Set the Raw Water intake riser and Intake screens**
- **Finalize design of the landscape and site finishes**
- **Begin excavation of the raw water tunnel shaft**
- **Complete excavation of the Jollyville shaft**
- **Bid out/negotiate GMPs for the remaining work packages (GMP 3H, GMP 3I & GMP 4)**
- **Complete Jollyville Transmission Main WTP access shaft**
- **Finalize design of Bullick Hollow duct bank**
- **Advertise Finished Water Pump Station and Bullick Hollow Duct Bank**
- **Austin Energy mobilized onsite for construction of Bullick Hollow substation**



**WTP4 Project Status Report
Budget Summary
As of April 30, 2012
(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	28.1	(0.8)
<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>	-	2.0	2.0
Subtotal	\$ 72.2	\$ 68.9	\$ 7.3

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	(0.3)
<i>GMP 1 - Raw Water Intake & Tunnels</i>	55.7	\$ 62.5	(6.8)
<i>GMP 2 - Raw Water Pump Station</i>	12.9	18.5	(5.6)
<i>GMP 3A - Early Out Procurement</i>	7.0	7.0	-
<i>GMP 3B - Clearwells & Clarifiers</i>	14.5	14.5	-
<i>GMP 3C - WTP4 Walls, Conveyances & Filters</i>	14.2	18.4	(4.2)
<i>GMP 3D - WTP4 Washwater, Solids Handling & Chemical Bldg</i>	16.0	20.0	(4.0)
<i>GMP 3E - WTP4 Electrical, I&C, Yardpiping & Duct Bank</i>	37.1	42.0	(4.9)
<i>GMP 3F - Lime Building and Balance of Clearwell</i>	4.7	8.1	(3.4)
<i>GMP 3G - Admin Bldg and Maintenance Bldg</i>	4.8	5.4	(0.6)
<i>GMP 3H - MSPS and BHR Ductbank</i>	11.3	20.9	(9.6)
<i>GMP 3I - WPT and RWPS Site Security</i>	1.2	1.2	-
<i>GMP 4 - WTP4 and RWPS Site Finishes</i>	7.2	5.0	2.2
GMP 5 - Transmission Main System	93.4	85.6	7.8
<i>Contract Contingency</i>	27.1	-	27.1
Package Subtotal	\$ 359.0	\$ 361.2	\$ 2.2

Other Costs

<i>Environmental Commissioning</i>	\$ 4.2	\$ 3.2	\$ 1.0
Engineering Applicable from Bull Creek Site	5.6	5.6	-
<i>Offsite Improvements</i>	3.1	5.4	(2.3)
<i>City Administration Costs (PM, Inspection, Contract & Real Estate Svcs)</i>	7.2	6.2	1.0
Value Engineering	-	0.6	(0.6)
Executive Advisor	-	3.1	(3.1)
Outside Counsel	-	0.5	(0.5)
Construction Contract	-	0.3	(0.3)
Environmental	-	0.3	(0.3)
Subtotal	\$ 20.1	\$ 24.7	\$ (4.6)

Land Costs

WTP4 Site	\$ 32.0	\$ 32.0	\$ -
Raw Water Pump Station Site	7.2	7.2	-
Transmission Main Shaft Sites	-	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
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Total WTP4 Costs

\$ 508.0	\$ 505.8	\$ 8.1
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CMAR Contract Contingency

	\$24.4	
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NOTES: 1. Items in bold above represent contracted amounts, while items in italics represent estimates.



**WTP4 Project Status Report
Expenditure Summary
As of April 30, 2012
(Dollars in Millions)**

Contract and Expenditure Summary			
Contract Amount	Contracted Contingency & Allowances	Expended to Date	Contract Amount Remaining

Engineering

Carollo - Plant Design	\$ 27.6	\$ 0.1	\$ 26.8	\$ 0.8
Carollo - Plant Construction Services	21.5	-	5.9	\$ 15.6
B&V - Jollyville TM Design	16.6	-	11.5	\$ 5.1
<i>LAN - Forest Ridge TM Prelim. Design</i>	0.9	-	0.9	\$ -
Material Testing	0.5	-	0.3	0.2
Subtotal	\$ 67.1	\$ 0.1	\$ 45.2	\$ 21.7

Initial Construction Packages

Temporary Preconstruction Fencing	\$ 0.4	\$ -	\$ 0.4	\$ -
WTP4 Stormwater Facilities	3.4	-	3.4	-
RWPS Excavation & Stormwater Facilities	3.3	-	3.0	0.3
Bullick Hollow Road Improvements	1.1	-	1.1	-
Subtotal	\$ 8.2	\$ -	\$ 7.9	\$ 0.3

Construction Manager at Risk Contract

General Conditions (GC / Fee / Pre-Construction)	54.3	0.9	23.4	30.9
GMP 1 - Raw Water Intake & Tunnels	62.6	8.0	29.8	32.8
GMP 2 - Raw Water Pump Station	18.6	0.4	0.2	18.4
GMP 3A - Early Out Procurement	7.0	0.1	0.2	6.8
GMP 3B - Clearwells & Clarifiers	14.5	0.4	12.2	2.3
GMP 3C - WTP4 Walls, Conveyances & Filters	17.9	1.4	7.5	10.4
GMP 3D - Washwater, Solids Handling, and Chemical Building	19.7	3.4	3.9	15.8
GMP 3E - WTP4 Electrical, I&C, Yardpiping, and Duct Bank	42.0	2.5	5.2	36.8
GMP 3F - Lime Bldg and Balance of Clearwell	8.1	0.2	0.1	8.0
<i>GMP 3G - Admin Bldg and Maintenance Bldg</i>	-	-	-	-
<i>GMP 3H -BHR Ductbank, Site Security & CSM Pkg 5; MSPS Only</i>	-	-	-	-
<i>GMP 4 - WTP4 and RWPS Site Finishes</i>	-	-	-	-
GMP 5 - Transmission System	85.6	7.0	18.1	67.5
Package Subtotal	330.3	24.3	100.6	229.7

Other Costs

<i>Environmental Commissioning</i>	\$ 2.5	\$ -	\$ 1.8	\$ 0.7
Engineering Applicable from Bull Creek Site	5.6	-	5.6	-
Offsite Improvements - PEC Relocation at WTP4	1.5	-	1.1	0.4
City Administration Costs (PM, Inspection, Contract & Real Estate Svcs)	6.8	-	3.9	2.9
Commercial Paper Processing Charge	4.1	-	4.1	-
Greenberg Traurig - Construction Contract Legal	0.2	-	0.2	-
Smith, Robinson -Environmental Legal	0.3	-	0.1	0.2
Scott Douglas - Legal	0.3	-	0.2	0.1
CDM - Value Engineering Plant	0.6	-	0.6	-
Jacobs - Value Engineering Transmission Main	0.1	-	0.1	-
Executive Advisor	3.1	-	2.7	0.4
Subtotal	\$ 25.1	\$ -	\$ 20.4	\$ 4.7

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	-
<i>Easements / Park Land Mitigation</i>	-	-	-	-
Subtotal	\$ 41.7	\$ -	\$ 41.7	\$ -

Total WTP4 Costs

\$ 472.4	\$ 24.4	\$ 215.8	\$ 256.4
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NOTE: Items in bold above represent contracted amounts, while items in italics represent estimates.



**WTP4 Project Status Report
MBE / WBE Summary
As of March 31, 2012**

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	\$ 20,824,804
MBE		4.95%	18.05%	14.18%	\$ 2,953,137
African American			2.38%	1.39%	\$ 289,042
Hispanic			10.30%	7.40%	\$ 1,540,053
Native American / Asian American			5.37%	5.40%	\$ 1,124,042
WBE		2.59%	8.66%	5.12%	\$ 1,066,158
Non-Certified Subcontractor			5.17%	3.64%	\$ 757,993
Primary Subcontractor			68.12%	77.06%	\$ 16,047,517
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	\$ 4,942,017
MBE		10.43%	12.60%	31.95%	\$ 1,578,883
African American		2.97%	3.03%	6.59%	\$ 325,580
Hispanic		6.86%	8.97%	24.77%	\$ 1,224,253
Native American / Asian American		0.60%	0.60%	0.59%	\$ 29,050
WBE		2.70%	8.20%	7.63%	\$ 377,079
Non-Certified Subcontractor			33.61%	28.77%	\$ 1,421,750
Primary Subcontractor			45.59%	31.65%	\$ 1,564,305
S-302 Clearwells 1 & 2 Construction				Amt Paid to Date	\$ 5,405,041
MBE		10.76%	15.59%	16.69%	\$ 902,007
African American		2.18%	6.88%	8.72%	\$ 471,273
Hispanic		8.08%	8.10%	7.83%	\$ 423,039
Native American / Asian American		0.00%	0.61%	0.00%	\$ -
WBE		2.55%	13.75%	22.51%	\$ 1,216,713
Non-Certified Subcontractor			14.45%	16.17%	\$ 874,230
Primary Subcontractor			56.84%	44.63%	\$ 2,412,092
S-304 Structural Excavation and Miscellaneous Site Improvements				Amt Paid to Date	\$ 2,148,900
MBE		9.98%	18.71%	21.60%	\$ 464,220
African American		2.40%	7.72%	8.08%	\$ 173,737
Hispanic		7.38%	10.77%	13.00%	\$ 279,288
Native American / Asian American		0.20%	0.22%	0.52%	\$ 11,195
WBE		2.03%	2.08%	1.93%	\$ 41,498
Non-Certified Subcontractor			3.79%	4.24%	\$ 91,020
Primary Subcontractor			75.42%	72.23%	\$ 1,552,162
GMP 3C Filters & Upflow Clarifiers 1 & 2 and Walls, Conveyances & Misc Site Work					
S-204 RWPS Retaining Walls				Amt Paid to Date	\$ 681,274
MBE		4.98%	6.37%	5.45%	\$ 37,097
African American		0.00%	0.00%	0.00%	\$ -
Hispanic		0.00%	1.88%	5.45%	\$ 37,097
Native American / Asian American		0.00%	0.00%	0.00%	\$ -
WBE		1.12%	4.49%	12.40%	\$ 84,450
Non-Certified Subcontractor			69.00%	0.00%	\$ -
Primary Subcontractor			24.63%	82.16%	\$ 559,726
S-303 Filters and Upflow Clarifiers 1 & 2				Amt Paid to Date	\$ 3,855,647
MBE		5.09%	8.88%	12.13%	\$ 467,593
African American		1.12%	1.28%	5.28%	\$ 203,632
Hispanic		3.67%	3.85%	6.85%	\$ 263,962
Native American / Asian American		0.30%	3.75%	0.00%	\$ -
WBE		3.12%	4.49%	9.62%	\$ 370,822
Non-Certified Subcontractor			7.54%	12.21%	\$ 470,767
Primary Subcontractor			85.68%	66.05%	\$ 2,546,465
S-305 Walls, Conveyances, & Miscellaneous Site Work				Amt Paid to Date	\$ 4,067,114
MBE		6.04%	26.91%	25.89%	\$ 1,052,853
African American		1.00%	1.05%	0.92%	\$ 37,500
Hispanic		4.54%	20.46%	20.23%	\$ 822,951
Native American / Asian American		0.50%	5.40%	4.73%	\$ 192,403
WBE		2.70%	4.20%	2.94%	\$ 119,677
Non-Certified Subcontractor			0.88%	34.64%	\$ 1,408,752
Primary Subcontractor			68.01%	36.53%	\$ 1,485,832



**WTP4 Project Status Report
MBE / WBE Summary
As of March 31, 2012**

WTP No. 4 MBE/WBE Summary		Solicitation Goals	Approved Compliance Plan	Actual Participation To Date %	Actual Participation To Date \$
GMP 1	Raw Water Intake, Shafts and Tunnels				
S-101	Raw Water Intake, Shafts and Tunnels			Amt Paid to Date	\$ 33,405,825
	MBE	5.18%	6.11%	10.67%	\$ 3,563,999
	African American	1.16%	1.82%	1.66%	\$ 554,476
	Hispanic	3.95%	4.14%	8.00%	\$ 2,672,352
	Native American / Asian American	0.07%	0.15%	1.01%	\$ 337,171
	WBE	1.54%	1.74%	3.80%	\$ 1,270,950
	Non-Certified Subcontractor		12.17%	9.75%	\$ 3,257,741
	Primary Subcontractor		85.89%	75.77%	\$ 25,313,134

GMP 3D Washwater, Solids handling & Chemical Building					
S-306	Washwater Recovery Facilities			Amt Paid to Date	\$ 1,451,869
	MBE	6.72%	9.42%	3.68%	\$ 53,365
	African American	1.45%	1.66%	0.00%	\$ -
	Hispanic	4.62%	6.51%	3.68%	\$ 53,365
	Native American / Asian American	0.65%	1.25%	0.00%	\$ -
	WBE	3.05%	6.28%	1.70%	\$ 24,618
	Non-Certified Subcontractor		38.30%	51.95%	\$ 754,188
	Primary Subcontractor		46.00%	42.68%	\$ 619,698
S-307	Solids Handling Facilities & Centrifuge Building			Amt Paid to Date	\$ 1,341,819
	MBE	8.21%	11.14%	6.61%	\$ 88,734
	African American	1.98%	1.98%	1.80%	\$ 24,122
	Hispanic	5.53%	5.57%	4.82%	\$ 64,613
	Native American / Asian American	0.70%	3.59%	0.00%	\$ -
	WBE	2.69%	5.36%	10.46%	\$ 140,317
	Non-Certified Subcontractor		11.83%	32.87%	\$ 441,000
	Primary Subcontractor		77.95%	50.06%	\$ 671,768
S-309	Chemical Facilities & Chemical Processes			Amt Paid to Date	\$ 1,876,308
	MBE	6.51%	13.86%	0.90%	\$ 16,978
	African American	1.97%	2.49%	0.23%	\$ 4,230
	Hispanic	3.92%	4.00%	0.39%	\$ 7,347
	Native American / Asian American	0.62%	7.37%	0.29%	\$ 5,400
	WBE	1.65%	5.70%	24.09%	\$ 452,059
	Non-Certified Subcontractor		57.11%	48.66%	\$ 912,933
	Primary Subcontractor		23.33%	26.35%	\$ 494,337

GMP 3E Electrical, I&C, Yard Piping & Ductbank					
S-310	Electrical Package			Amt Paid to Date	\$ 1,756,732
	MBE	9.41%	93.99%	92.06%	\$ 1,617,222
	African American	1.43%	1.47%	0.00%	\$ -
	Hispanic	5.85%	90.37%	92.06%	\$ 1,617,222
	Native American / Asian American	2.13%	2.15%	0.00%	\$ -
	WBE	3.61%	3.66%	0.00%	\$ -
	Non-Certified Subcontractor	0.00%	2.35%	0.00%	\$ -
	Primary Subcontractor		0.00%	7.94%	\$ 139,510
S-312	Process Control Information Systems (SCADA)			Amt Paid to Date	\$ 980,652
	MBE	1.95%	4.75%	0.00%	\$ -
	African American	0.00%	0.00%	0.00%	\$ -
	Hispanic	0.00%	4.75%	0.00%	\$ -
	Native American / Asian American	0.00%	0.00%	0.00%	\$ -
	WBE	1.93%	2.00%	0.00%	\$ -
	Non-Certified Subcontractor	0.00%	0.00%	0.00%	\$ -
	Primary Subcontractor	93.25%	93.25%	100.00%	\$ 980,652
S-313	Site Yard Pipe & Ductbank			Amt Paid to Date	\$ 3,198,552
	MBE	4.98%	5.97%	0.27%	\$ 8,759
	African American	1.20%	1.20%	0.27%	\$ 8,759
	Hispanic	4.58%	4.57%	0.00%	\$ -
	Native American / Asian American	0.19%	0.19%	0.00%	\$ -
	WBE	62.60%	43.82%	12.53%	\$ 400,884
	Non-Certified Subcontractor	19.80%	36.89%	1.45%	\$ 261,170
	Primary Subcontractor	11.63%	13.32%	79.03%	\$ 2,527,739



**WTP4 Project Status Report
 MBE / WBE Summary
 As of March 31, 2012**

GMP 5 Jollyville Transmission Main			
S-501	Jollyville Transmission Main Tunnel		Amt Paid to Date \$ 20,264,245
	MBE	3.86%	3.58% \$ 725,423
	African American	1.33%	1.81% \$ 367,179
	Hispanic	2.52%	1.76% \$ 356,470
	Native American / Asian American	0.01%	0.01% \$ 1,774
	WBE	1.22%	1.40% \$ 283,314
	Non-Certified Subcontractor	3.28%	0.15% \$ 29,595
	Primary Subcontractor	91.56%	94.88% \$ 19,225,913

WTP No. 4 MBE/WBE Overall Project Summary	Aggregate of Compliance Plans	Actual Participation To Date %	Actual Participation To Date \$
PRE-CON, GENERAL CONDITIONS AND CONSTRUCTION PH SUBCONTRACTORS		Amt Paid to Date \$ 92,123,726	
	MBE	12.97%	12.68% \$ 13,530,271
	African American	1.62%	2.30% \$ 2,459,531
	Hispanic	9.96%	8.77% \$ 9,362,011
	Native American / Asian American	1.39%	1.60% \$ 1,708,730
	WBE	6.08%	5.48% \$ 5,848,538
	Non-Certified Subcontractor	11.77%	10.01% \$ 10,681,139
	Primary Subcontractor	69.18%	71.36% \$ 76,140,851





**WTP4 Project Status Report
APPENDICES**

CONSTRUCTION STATUS REPORTS



WTP4 – GMP 1 – Raw Water System (Intake, Tunnel, and Transmission Main) Monthly Status Report No. 15 – April 2012

COA CIP No. 6683.019

Contractor: MWH Constructors (CMAR)

Austin Hill Country Constructors (Sub)

Raw Water System Facilities Scope:

- Raw Water Intake
- Raw Water Tunnel & Access Shaft
- Raw Water Transmission Main

Start Date: 01/01/11

Original Contract Duration: 1042 Days

Approved Time Extensions: 0 Days

Current Contract Completion Date:

February 25, 2014

Percent Complete Time: 46.6%

Percent Complete Dollars: 66.0%

Construction Progress for April 2012:

- Continued marine work. Received intake riser pipe and fittings, drilled riser shaft, installed tension anchors, and continued construction of screen support frames.
- Placed invert in the RWTM tunnel and made preparations for receiving pipe.
- Poured connection with suction chamber and resumed excavation of access shaft.

Submittals:

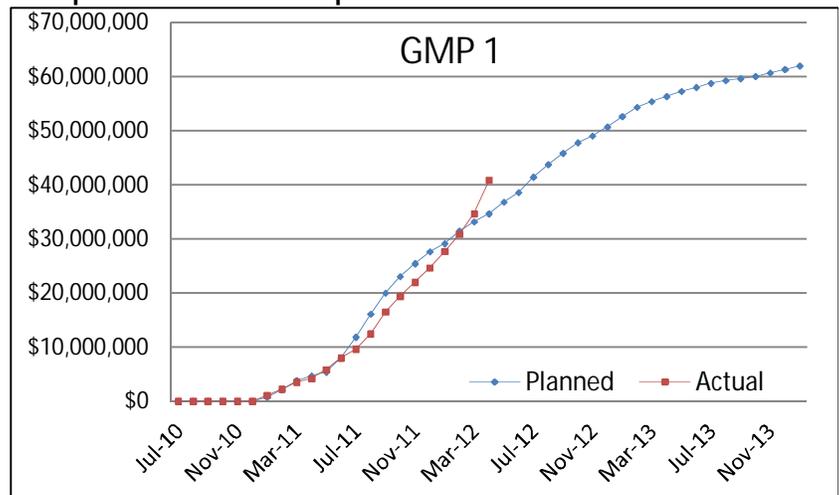
- To date, 219 Submittals and 78 Resubmittals have been received, with 10 Submittals currently under review

Requests for Information:

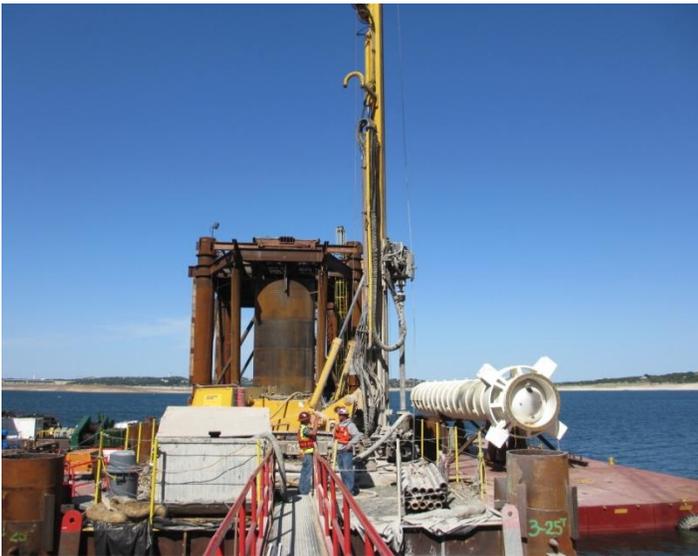
- To date, 144 RFIs have been received

Change Orders:

- To Date: 3 Executed Change Orders (No. 3, No. 4, & No. 5), consisting of 7 total CMs
- Four (4) CMs currently being monitored.



Lowering Intake Riser Pipe from Mansfield Dam onto Barge



Drilling for tension anchors, riser in background



Installing Reinforcement in Piles



Divers working on Raw Water Intake



9-Foot Diameter Intake Pipe Fitting



Suction Chamber, Looking at Formwork in the Shaft



RWTM at STA 27+00, Looking toward Plant Site



MWH
CONSTRUCTORS



WTP4 – GMP 2 – Raw Water Pump Station Monthly Status Report No. 1 – April 2012

COA CIP No. 6683.013

Contractor: MWH Constructors (CMAR)

Scope: Raw Water Pump Station

Start Date: 4/23/11

Original Contract Duration: 1103 Days

Approved Time Extensions: 0 Days

Current Contract Completion Date:

April 30, 2014

Percent Complete Time: 0.7%

Percent Complete Dollars: 2.29%

Construction Progress for April 2012:

S201 - Raw Water Pump Station

(Laughlin Thyssen, Inc.)

- Began and completed rough excavation of building foundation.

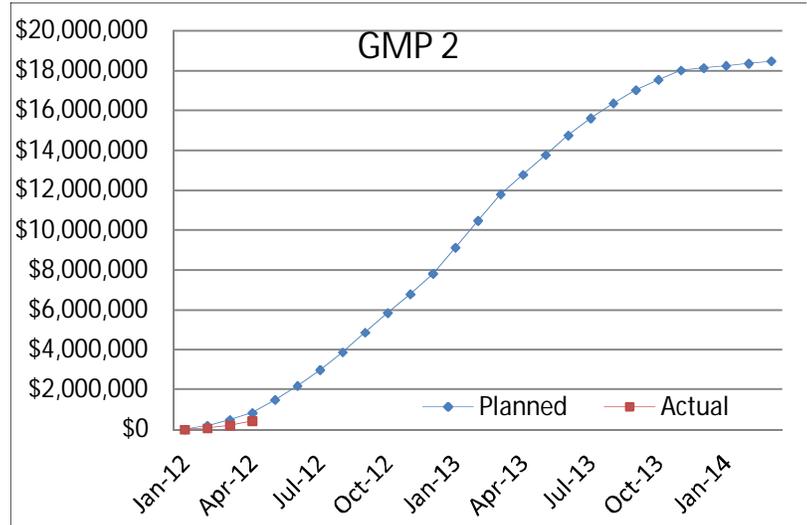
S202 - Raw Water Pump Station

Electrical Package (KST, Inc.)

- Began installation of underslab electrical conduits.

S203 – Procurement/Installation of Raw Water Pumps (Harvey Cleary Builders)

- Excavated for raw water pump foundations.
- Worked on pump submittal



Milling Machine for Excavation



Excavation of Pump Station, Pump Wells in Picture

Submittals

- To date, 77 Submittals and 13 Resubmittals have been received, with 20 Submittals currently under review

Requests for Information

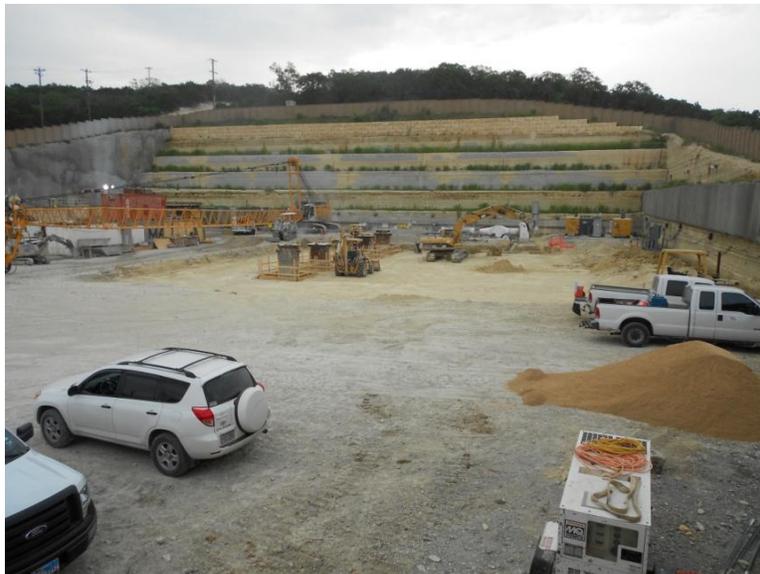
- To date, 40 RFIs have been received

Change Orders:

- To date, no CMs or change orders



Overview of the Excavation of the Raw Water Pump Station



Raw Water Pump Station with Rough Excavation Completed



Beginning Installation of Underslab Conduits



MWH
CONSTRUCTORS



WTP4 – GMP 3B – Excavation & Construction of Clearwells and Upflow Clarifiers Monthly Status Report No. 19 – April 2012

COA CIP No. 6683.019

Contractor: MWH Constructors

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

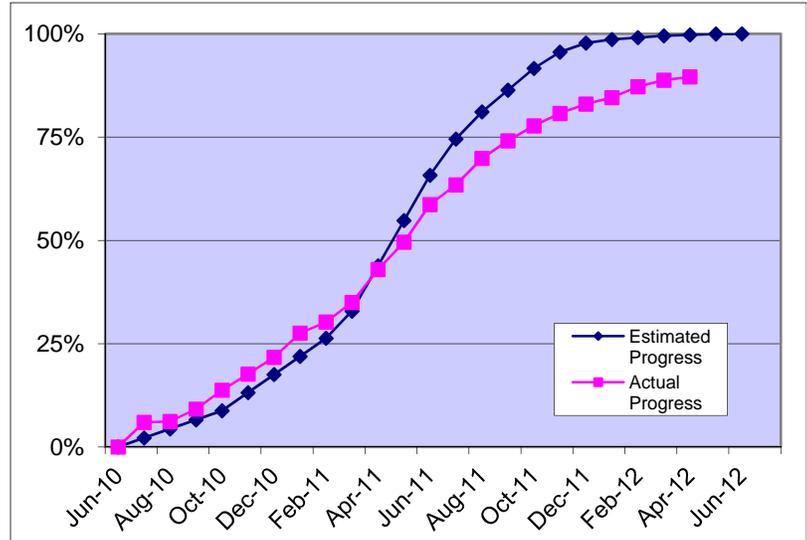
Approved Time Extensions: 0 Days

Current Contract Completion Date:

June, 2012

Percent Complete Time: 91.3%

Percent Complete Dollars: 89.6%



Construction Progress as of 4/30/2012:

S304 Site Excavation and Improvements (Ranger Excavating, LC)

- Excavation for Clearwells, UFCs, and Filters complete.
- Filter area retaining wall and stormwater piping complete.
- Field trailer utilities complete.

S301 UFCs (Austin Engineering Co.)

- All piping beneath UFCs complete.
- UFC 1 and 2 Hydraulic area concrete complete.
- UFC1 and 2 hydraulic leak test complete.
- Gallery wall construction 55% complete.
- Gallery mechanical work underway.

S302 Clearwells (Laughlin-Thyssen, Inc.)

- Clearwell structural concrete complete.
- CMU velocity walls 95% complete.
- Concrete sealing and finishing underway.

Change Orders:

- CO#1 and #2 completed for UFC over-excavation.

Requests for Information:

- To date, 81 RFIs have been received.

Submittals:

- To date, 189 Submittals and 82 Resubmittals have been received.

Upcoming Milestones:

- Clearwell hydraulic leak test June.



Delivery of UFC Drive Cage.



**Installation of Steel Beams
for Mezzanine Level in Raw
Water Pipe Gallery.**



Forms for Catwalks at UFC No. 1.



Completed Catwalks at UFC No. 1.



Filling Form Tie-Holes Inside Clearwells.



Carbon Dioxide Feed Room Looking West.



MWH
CONSTRUCTORS



WTP4 – GMP 3C – Filters, UFC Mechanical, Site Walls, Conveyances and Grading Monthly Status Report No. 15 – April 2012

COA CIP No. 6683.019

Contractor: MWH Constructors

Scope: Filter Building, Upflow Clarifiers (UFCs) mechanical; site retaining walls, stormwater piping, and major roadway earthwork and grading.

Start Date: 12/13/2010

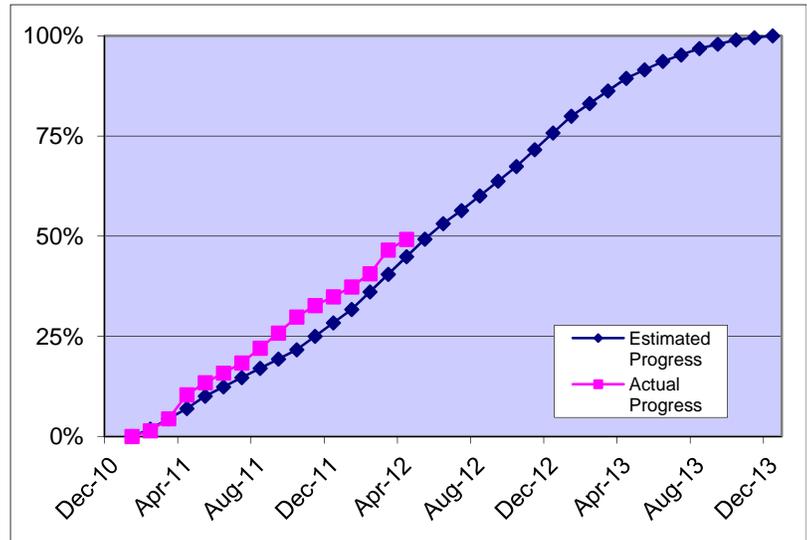
Original Contract Duration: 1088 Days

Approved Time Extensions: 0 Days

Current Contract Completion Date: 12/5/13

Percent Complete Time: 42.9%

Percent Complete Dollars: 49.2%



Construction Progress as of 4/30/2012:

S303 Filters and Upflow Clarifiers Mechanical (Laughlin-Thyssen, Inc.)

- Filter under-slab piping installed and gallery slab pours completed.
- Initial gallery walls complete and filter basin walls underway.
- Filter basin slabs 90% complete.

S305 Walls, Conveyances and Misc. Site Improvements (Laughlin-Thyssen, Inc.)

- Major embankment work approximately 95% complete.
- Major roadway cuts 100% complete.
- Stormwater piping system installation 80% complete.
- Site retaining walls 95% complete.

Change Orders:

- None to date.

Requests for Information:

- To date, 161 RFIs have been received.

Submittals:

- To date, 246 Submittals and 163 Resubmittals have been received.

Upcoming Milestones:

- Site retaining walls complete June.



Filter Gallery looking northeast.



Filters looking northeast.



Filter Gallery walls near air scour blowers.



Filter Boxes looking west.



Footings at Retaining Wall M.

WTP4 – GMP 3D – Washwater Recovery, Solids Handling and Chemical Facilities Monthly Status Report No. 8 – April 2012

COA CIP No. 6683.019

Contractor: MWH Constructors

Scope: Backwash water settling and recovery; residuals (solids) thickening, storage and dewatering; chemical storage and handling; electrical substation building.

Start Date: 4/28/2011

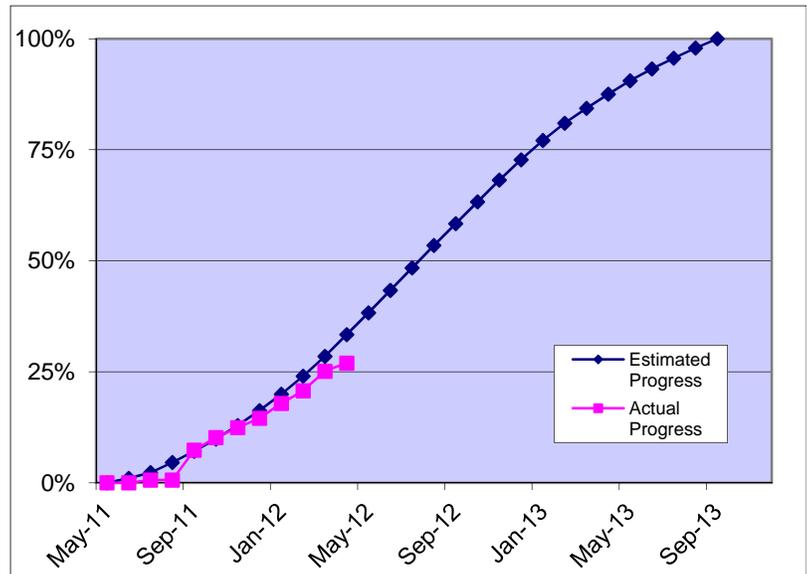
Original Contract Duration: 872 Days

Approved Time Extensions: 0 Days

Current Contract Completion Date: 9/16/13

Percent Complete Time: 41.4%

Percent Complete Dollars: 27.0%



Construction Progress as of 4/30/2012:

S306 Washwater Recovery Facility (Matous Construction, Ltd)

- Diversion Box walls 95% complete.
- Large-diameter piping installed.
- Pump station slabs complete, walls underway.

S307 Solids Handling and Centrifuge Facilities (Laughlin-Thyssen, Inc.)

- Gravity thickener sump complete.
- GT pump station concrete 80% complete.
- Centrifuge Building columns and grade beams underway.
- Sludge Holding Tank seal slab complete.

S309 Chemical Facilities and Electrical Building (Harvey-Cleary Builders).

- Underslab conduit installation complete.
- Grade beams complete.
- Column and slab installation underway at Chemical and SH Buildings.

Change Orders:

- None to date.

Submittals and Requests for Information:

- To date, 311 Submittals and 113 Re-submittals have been received.
- To date, 143 RFIs have been received

Upcoming Milestones:

- Hypochlorite storage tank walls and Solids Storage area slabs - May.



Recycle Pump Station and Flow Diversion Box.



**Sludge Holding Tanks
slab rebar.**



Chemical Building operating deck slab rebar.



**Gravity Thickener sludge well and Thickener
Pump Station looking north.**



SH Building column and bulk storage tank forms.



LAS Building seal slab and rebar.

WTP4 – GMP 3E – Plant-Wide Electrical, SCADA and Yard Piping Monthly Status Report No. 7 – April 2012

COA CIP No. 6683.019

Contractor: MWH Constructors

Scope: Plant-wide electrical, process control and instrumentation, duct banks and yard piping.

Start Date: 7/15/2011

Original Contract Duration: 1044 Days

Approved Time Extensions: 0 Days

Current Contract Completion Date: 5/16/14

Percent Complete Time: 28.6%

Percent Complete Dollars: 25.4%

Construction Progress as of 4/30/2012:

S310 WTP Site Electrical (T. Morales Company)

- Below-slab duct banks installed at SH, SUB1, LAS, Centrifuge and Chemical Buildings.
- Duct banks 90% installed at solids storage, thickening, and dewatering areas.

S312 Plant-Wide Process Control/SCADA (Commerce Controls, Inc.)

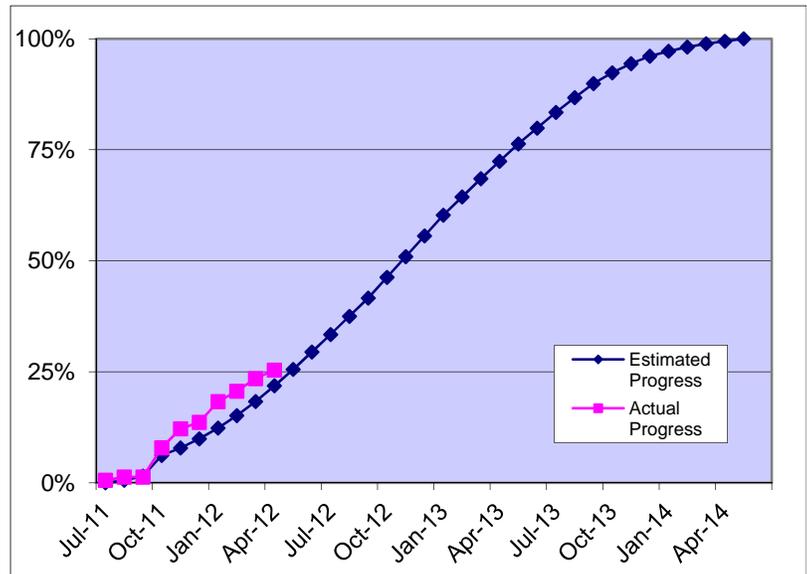
- PLC panels delivered for HMI programming and testing.
- Programming software delivered.

S313 Yard Piping and Duct Banks (KST Electric)

- Plant sanitary sewer system piping and manholes underway.
- Large steel piping delivered.
- Duct bank, sewer line, and electrical manholes installed near Lime Building.
- Site duct bank system underway.

Change Orders:

- None to date.



Submittals and Requests for Information:

- To date, 138 Submittals and 53 Re-submittals have been received.
- To date, 101 RFIs have been received

Upcoming Milestones:

- Large pipe installation beginning May.



Electrical ductbank installation at Centrifuge Building.



Delivery of 84-inch raw water pipe.



Delivery of 30-inch wastewater recovery pipe.



Electrical ductbank installation adjacent to UFCs.



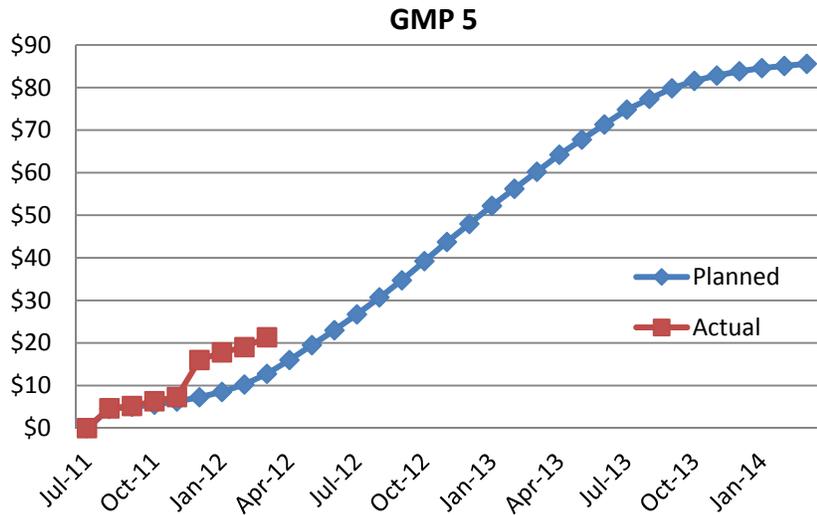
Electrical ductbank and manhole installation along Road C.



Backfill of electrical ductbank and manholes.

WTP4 – GMP 5 – Jollyville Transmission Main WTP4 Monthly Status Report No. 6 – April 2012

COA CIP No. 6683.019
 Contractor: MWH Constructors (CMAR)
 Southland/Mole (Sub)
 Scope: 34,565 LF finished water transmission main from WTP4 to Jollyville Reservoir.
 Start Date: 7/19/2011
 Original Contract Duration: 1034 Days
 Approved Time Extensions: 0 Days
 Current Contract Completion Date: 5/18/2014
 Percent Complete Time: 26.5%
 Percent Complete Dollars: 24.9%



Construction Progress as of 4/30/2012:

Jollyville Shaft

- Excavation, ring placement, and grout complete to ring 106 (159 feet, end of rings/grout)
- Excavation, welded wire fabric with shotcrete installed to 251 ft.

Four Points Shaft

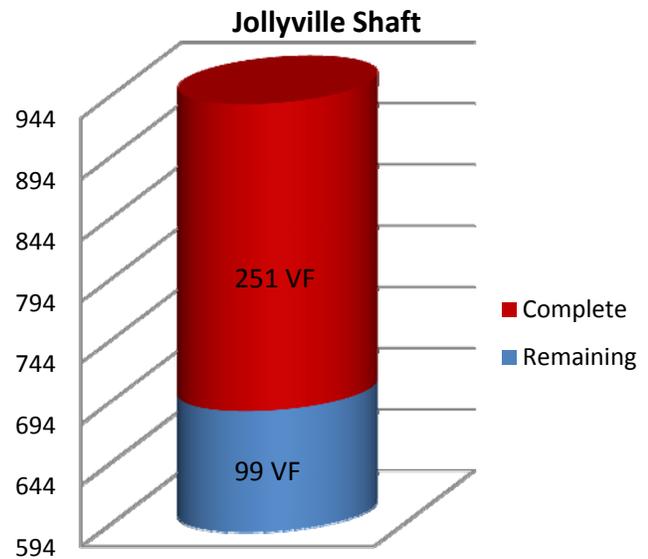
- Shaft excavation complete

Spicewood Springs Shaft

- Fencing and environmental controls installed Archeological report approved by THC on 3/15/12
- Excavation scheduled to begin in June.

Reach 1 – Four Points to WTP4

- Tunnel excavated to STA 37+50 (701 ft. from centerline of Four Points Shaft)
- Tail Tunnel excavated to 115 ft.



Upcoming Milestones:

- Jollyville Shaft scheduled for completion in May
- WTP4 Shaft scheduled to begin excavation in May
- TBM Reach #2 scheduled for delivery in mid June
- TBM Reach #3 scheduled for delivery in July

Requests for Information:

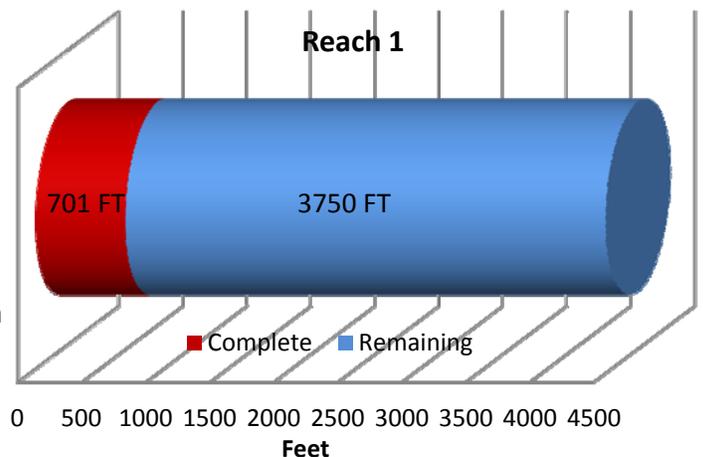
- To date, 18 RFIs have been received, with zero RFI's currently under review

Submittals:

- To date, 98 Submittals and 46 Re-submittals have been received, with 1 Submittal currently under review

Change Orders:

- To date, no Change Orders have been executed





Jollyville Reservoir Shaft:

At left, crews prepare to place shotcrete over welded wire fabric. At right, contractor applies shotcrete to shaft wall.



Four Points Shaft:

At left, crew prepares TBM for excavation. At right, hoe-ram excavates tail tunnel.

