



Water Treatment Plant 4

Quarterly Briefing
Environmental Board

October 19, 2011



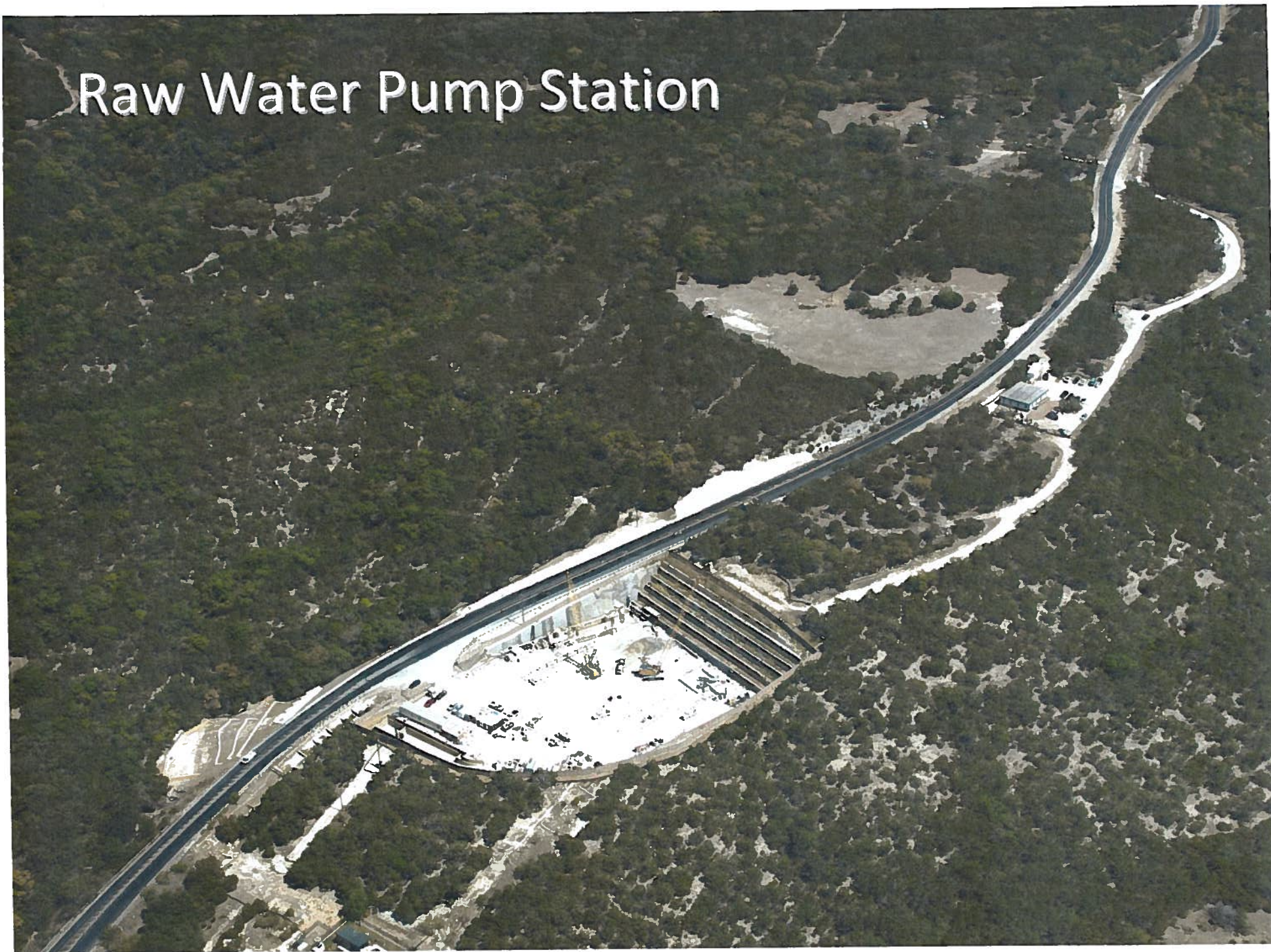
WTP 4 – Approved GMPs

GMP	Scope of Work	Current Status	Approvals
GMP 3A	Early Out Procurement Purchase of Process Equipment	Equipment in procurement/fabrication	May 2010 (Council Approved)
GMP 3B	Clearwells & Upflow Clarifiers (UFCs)	In Construction	June 2010 (Council Approved)
GMP 3C	WTP Filter Complex and Site Walls	In Construction	November 2010 (Council Approved)
GMP 1	Raw Water Intake, RW Tunnels	In Construction	December 2010 GMP Negotiated
GMP 3D	WTP Washwater, Solids and Chemical Facilities	In Construction	April 2011 GMP Negotiated
GMP 3E	WTP Electrical & Underground Mech and WTP & RWPS SCADA	Beginning Construction	July 2011 GMP Negotiated
GMP 5	Jollyville Transmission Main	Beginning Construction	July 2011 GMP Negotiated

WTP 4 – Upcoming GMPs

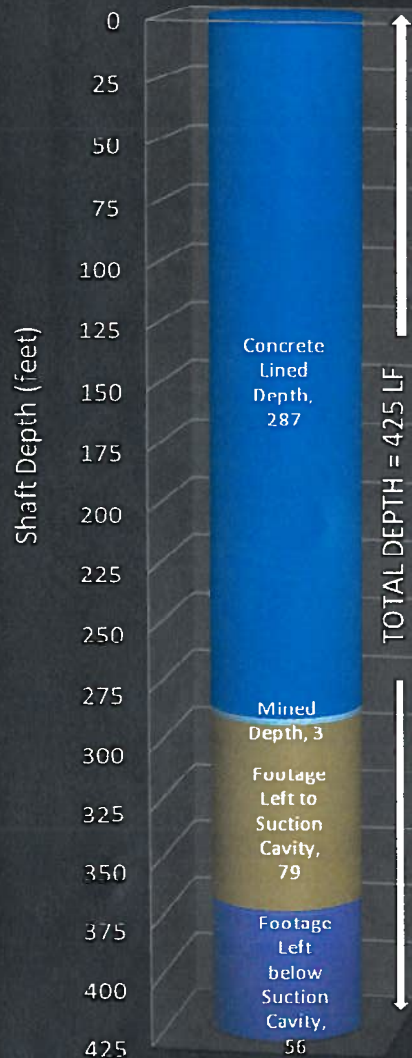
GMP	Scope of Work	Current Status	Approvals
GMP 2	RWPS Construction	Negotiating Final GMP	September 2011 (negotiate GMP)
TBD (GMP 3 Series)	Admin Bldg, Maint Bldg, Site Security, Lime Bldg, MSPS & BHR Ductbank	Advertises – October	February 2012 (negotiate GMP)
GMP 4	RWPS & WTP Site Finishes	Advertises – November	March 2012 (negotiate GMP)

Raw Water Pump Station



Raw Water System - Shaft

Raw Water Access Shaft
Week Ending September 2, 2011



- 79 ft to Suction Cavity – early October
- Raised bores for five (5) pump wells to begin mid-October

Raw Water System - TM



- Access shaft on plant site beginning mid-September (crane is mobilized)
- Excavation progressing at 20 LF per Shift



TOTAL LENGTH = 3,872 LF

Completed Tunnel, 800

Remaining Tunnel, 3072

0 100 200 300 400 500 600 700 800 900 1,000 1,100 1,200 1,300 1,400 1,500 1,600 1,700 1,800 1,900 2,000 2,100 2,200 2,300 2,400 2,500 2,600 2,700 2,800 2,900 3,000 3,100 3,200 3,300 3,400 3,500 3,600 3,700 3,800 3,900 4,000

Tunnel Length (feet)

■ Completed Tunnel

■ Remaining Tunnel

Raw Water System – Intake Staging



- Continue to assemble barges and Marine Based operations
- Installation of work platform begins mid-September at Intake site
- Alternate Intake Foundation Design nearing completion

WTP 4 – Plant Facilities

- Final Design in Progress: Finished Water Pump Station and Bullick Hollow Road Electrical Ductbank
- GMPs
 - 3A - Equipment: review/fabrication phase (varies)
 - 3B - Clearwells & Clarifiers: 70% complete & on schedule.
 - 3C - Filters & Site Walls: 22% complete & on schedule.
 - 3D - Washwater, Solids & Chemical Facilities: Just beginning Clearing and Site Excavation
 - 3E - Electrical, SCADA and Underground Mechanical: Mobilizing construction

WTP 4 Plant Site



WTP 4 Plant Site



Clearwells

- Roof is 1/3 complete
- Three wall sections remain
- One floor section remains



WTP 4 Plant Site



Upflow Clarifiers

- UFC 2: One wall remains w/Hydro test scheduled for mid-October
- UFC 1: Approx. 1-month behind UFC 2 progress



WTP 4 Plant Site



Filter Complex

- Filter under-slab piping complete
- Filter sump walls in progress



WTP 4 – Finished Water System

GMP 5

- Clearing of Four Points shaft site complete and shaft construction is in progress
- Environmental Pre-Construction meeting occurred September 12th
- Easement acquisition complete
- Shaft site preparation at the Jollyville Reservoir is in progress

WTP4 - Project Highlights

- Finalized negotiations on GMP 2 (Raw Water Pump Station)
- RW Intake barges have been staged on Lake Travis
- Sept 2nd - CMAR Safety picnic celebrating 200,000 hours without a lost work day. 945 Site Safety/Environmental orientations held
- Securing of the construction platform at the RW Intake site scheduled for September 19th.
- Construction of the raw water TM access shaft on the plant site beginning mid September

Environmental Compliance

Environmental Compliance

Construction

- Tree clearing & mulching
- Processing onsite material for reuse as backfill
- Contractor utilizing stormwater pond walls for extra storage space
- Street sweeping & dust control ongoing
- Weekly SWPPP inspections continue



Rock Crushing



08/05/2011 10:05

Processed Material



08/16/2011 14:58

Environmental Compliance

Void

- Encountered on July 11th during excavation of Profile T trench
- Feature located in Comanche Canyon Ranch (CCR) permit area
- Feature evaluated per CCR permit requirements & determined not to be suitable habitat for karst invertebrates
- Feature closed per City of Austin protocols (658S)
- Construction activities resumed on July 28th



Jollyville Transmission Main

- Four Points Shaft Site
 - Environmental conditions
 - E&S controls
 - Tree clearing and protection
 - Water treatment system
 - Fire prevention

Questions?

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<http://www.cityofaustin.org/water/wtp4>

**Water Treatment
Plant 4**



