



Large Construction Contracts Update
Department of Public Utilities

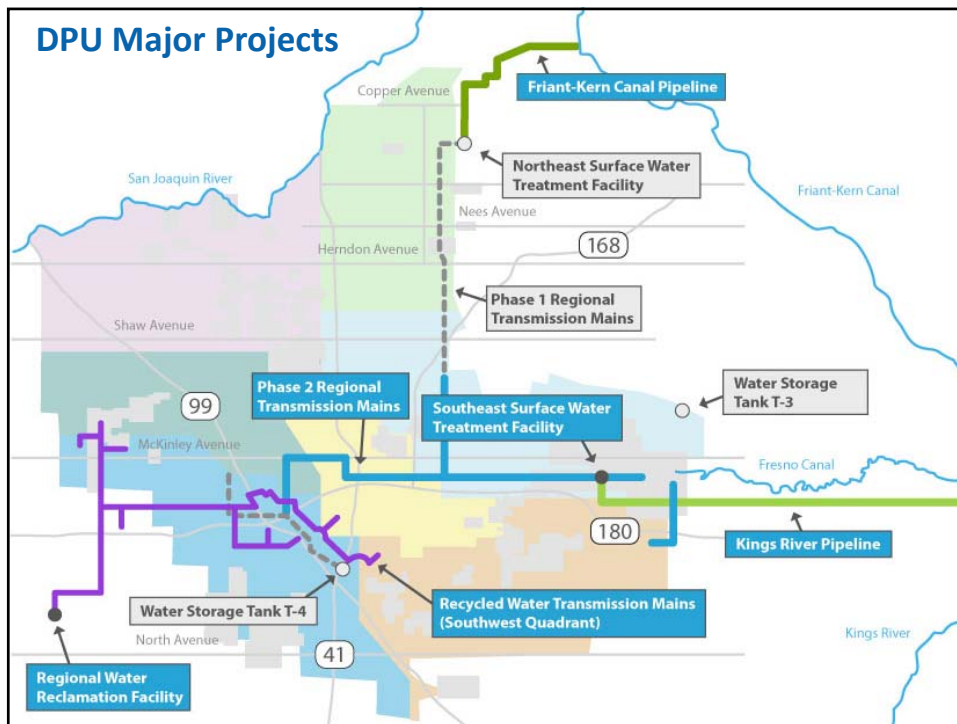
Capital Project Oversight Board Meeting *August 21, 2017*

Discussion Topics



- *Major Project Overview*
- *Project/Contract Status and Construction Change Review*





Major Construction Contracts				
Ongoing				
Construction Contract	Bid	Award	NTP	Substan. Compl.
<i>Raw Water</i>				
Friant-Kern Canal Pipeline	✓	✓	✓ May '16	Nov '17
Kings River Pipeline	✓	✓	✓ Jun '16	Dec '17
<i>Potable Water</i>				
SE Surface Water Trmt Facility	✓	✓	✓ Dec '15	Jun '18
RTM Segment A1	✓	✓	✓ Aug '16	Nov '17
RTM Segment A2	✓	✓	✓ Nov '16	Feb '18
<i>Recycled Water</i>				
SW RWTM Segment SW1B	✓	✓	✓ Feb '16	Sep '17
SW RWTM Segment SW1C	✓	✓	✓ May '16	Aug '17

Discussion Topics



- *Major Project Overview*
- *Project/Contract Status and Construction Change Review*



Friant Kern Canal Pipeline (FKCP)



OVERVIEW

- 4.5 miles of 60-inch diameter pipeline
- Water source for NESWTF

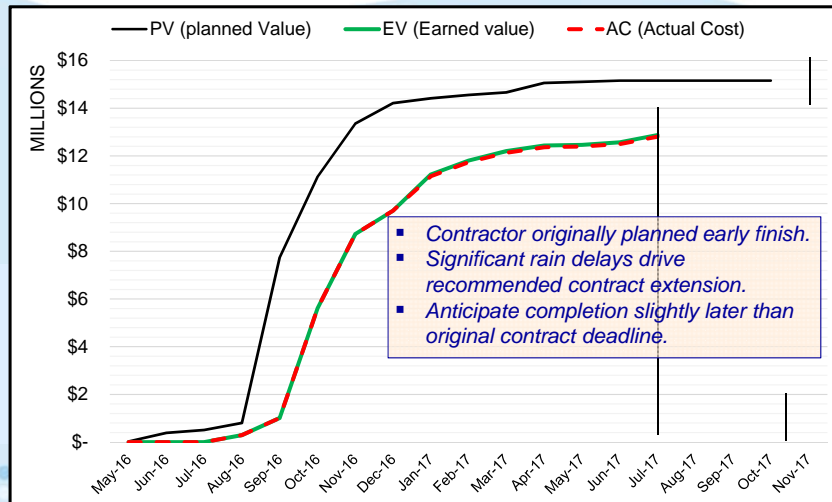
CONSTRUCTION SCHEDULE

- Notice to proceed: 05/31/16
- Original duration: 500 days
- *Addl days: 0 change, 0 rain*
- Final completion: 10/12/17
- Time elapsed: 88%

CONTRACT VALUE

- Original contract: \$ 15,157,862
- Suppl budget: \$ 300,000
- *Change orders: \$ 267,223*
- Current contract: \$ 15,425,085
- Actual cost: \$ 12,804,666
- Percent spent: 83%

Friant Kern Canal Pipeline (FKCP)



PERFORMANCE INDICES (Favorable is > 1.0, Unfavorable is < 1.0)

Cost Performance Index, CPI = Earned Value / Actual Cost = 1.0

Schedule Performance Index, SPI = Earned Value / Planned Value = 0.8

Friant Kern Canal Pipeline (FKCP)



OVERVIEW

- 4.5 miles of 60-inch diameter pipeline
- Water source for NESWTF

NOTABLE PENDING/UPCOMING CHANGE ITEMS:

- CCO 004
 - CTS (California Tiger Salamander) impacts: \$27k
 - NESWTF connection piping redesign (RFP 009): ~ \$493K
 - Time extension for inclement weather: 96 days
- Nesting Birds in Work Zone: ~ \$95k
- Existing 60" Pipe Repairs: ~ \$75k

Kings River Pipeline (KRP)



OVERVIEW

- 13 miles of 72-inch diameter pipeline
- Water source for SESWTF

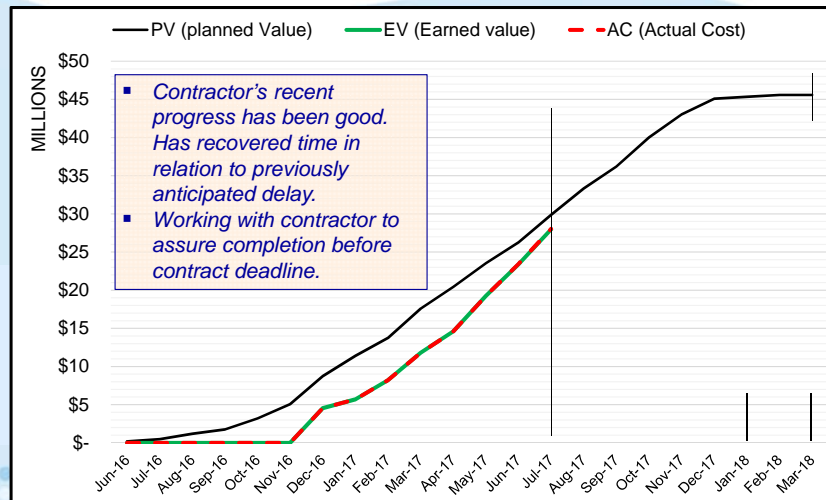
CONSTRUCTION SCHEDULE

- Notice to proceed: 06/27/16
- Original duration: 575 days
- **Addl days: 60 change, 0 rain**
- Final completion: 03/23/18
- Time elapsed: 65%

CONTRACT VALUE

- Original contract: \$ 45,083,750
- Suppl budget: \$ 500,000
- **Change orders: \$ 54,830**
- Current contract: \$ 45,138,580
- Actual cost: \$ 28,038,670
- Percent spent: 62%

Kings River Pipeline (KRP)



PERFORMANCE INDICES (Favorable is > 1.0, Unfavorable is < 1.0)

Cost Performance Index, CPI = Earned Value / Actual Cost = 1.0

Schedule Performance Index, SPI = Earned Value / Planned Value = 0.9

Kings River Pipeline (KRP)



OVERVIEW

- 13 miles of 72-inch diameter pipeline
- Water source for SESWTF

NOTABLE PENDING/UPCOMING CHANGE ITEMS:

- CCO 003
 - Paleontological monitoring : \$127k
 - Changes to traffic control requirements: \$56k
 - Intake equipment modifications: \$8k
- Armstrong Ave paving modifications: ~ \$52k

Southeast Surface Water Treatment Facility



OVERVIEW

- Conventional surface water treatment facility
- Initial capacity = 54 MGD, Re-rate to 80 MGD

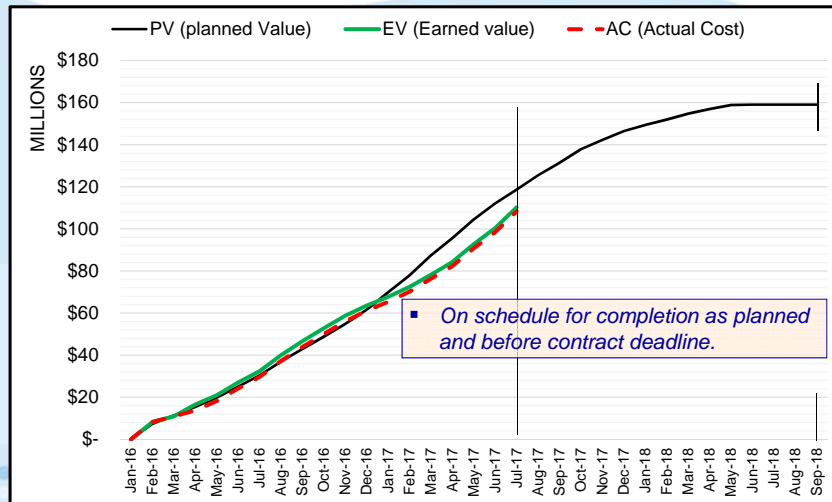
CONSTRUCTION SCHEDULE

- Notice to proceed: 12/31/15
- Original duration: 1000 days
- *Addl days: 0 change, 0 rain*
- Final completion: 09/25/18
- Time elapsed: 59%

CONTRACT VALUE

- Original contract: \$ 158,766,000
- Suppl budget: \$ 1,000,000
- Change orders: \$ 2,139,975
- Current contract: \$ 160,905,975
- Actual cost: \$ 108,305,577
- Percent spent: 67%

Southeast Surface Water Treatment Facility

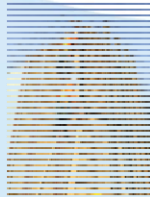


PERFORMANCE INDICES (Favorable is > 1.0, Unfavorable is < 1.0)

Cost Performance Index, CPI = Earned Value / Actual Cost = 1.0

Schedule Performance Index, SPI = Earned Value / Planned Value = 0.9

Southeast Surface Water Treatment Facility



OVERVIEW

- Conventional surface water treatment facility
- Initial capacity = 54 MGD, Re-rate to 80 MGD

NOTABLE PENDING/UPCOMING CHANGE ITEMS:

- CCO 010
 - Cement soil stabilization for Olive and Armstrong Ave construction: \$74k
 - Site drainage improvements: \$40k
 - Relocation of unknown private irrigation pipe: \$32k
 - Miscellaneous additions and credits: \$52k
- Planned Security Improvements

Regional Transmission Main – Segment A1 (RTM A1)



OVERVIEW

- 5 miles of 54-60 inch diameter pipeline
- Portion of RTM system to convey treated water from SESWTF to City's distribution systems

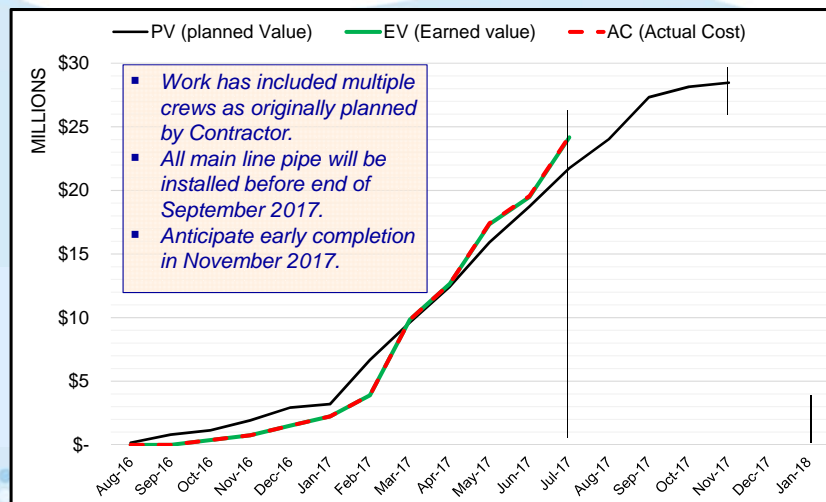
CONSTRUCTION SCHEDULE

- Notice to proceed: 08/29/16
- Original duration: 500 days
- **Addl days: 0 change, 0 rain**
- Final completion: 01/10/18
- Time elapsed: 70%

CONTRACT VALUE

- Original contract: \$ 28,471,884
- Suppl budget: \$ 300,000
- **Change orders: \$ 88,282**
- Current contract: \$ 28,560,166
- Actual cost: \$ 24,252,640
- Percent spent: 85%

Regional Transmission Main – Segment A1 (RTM A1)



PERFORMANCE INDICES (Favorable is > 1.0, Unfavorable is < 1.0)

Cost Performance Index, CPI = Earned Value / Actual Cost = 1.0

Schedule Performance Index, SPI = Earned Value / Planned Value = 1.1

Regional Transmission Main – Segment A1 (RTM A1)



OVERVIEW

- 5 miles of 54-60 inch diameter pipeline
- Portion of RTM system to convey treated water from SESWTF to City's distribution systems

NOTABLE PENDING/UPCOMING CHANGE ITEMS:

- CCO 002
 - Paleontological monitoring: \$107k
 - Addition of casing under abandoned RR tracks: \$76k
 - Traffic control modification for community safety (2 items): \$51k
 - Additional signage for public outreach and business support: \$3k
- Utility conflicts: ~ \$270k

Regional Transmission Main – Segment A2 (RTM A2)



OVERVIEW

- 4 miles of 24-48 inch diameter pipeline
- Portion of RTM system to convey treated water from SESWTF to City's distribution systems

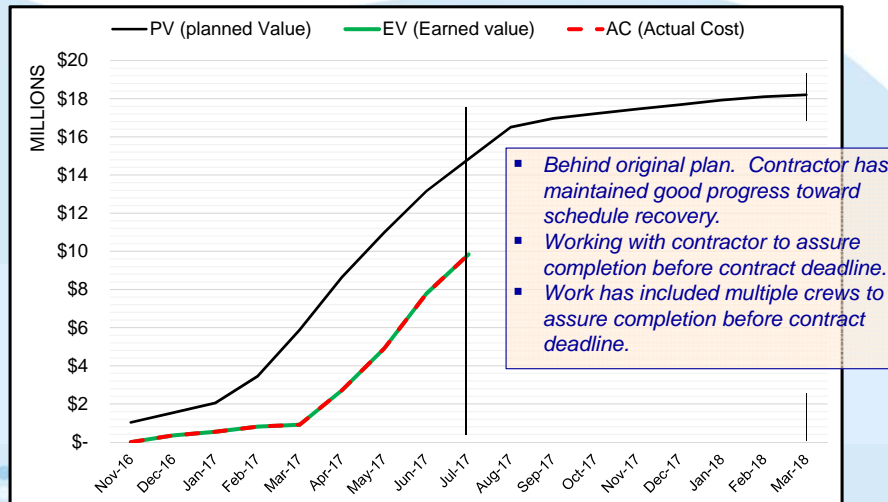
CONSTRUCTION SCHEDULE

- Notice to proceed: 11/08/16
- Original duration: 500 days
- *Addl days: 0 change, 0 rain*
- Final completion: 03/22/18
- Time elapsed: 56%

CONTRACT VALUE

- Original contract: \$ 18,204,180
- Suppl budget: \$ 300,000
- *Change orders: \$ 0*
- Current contract: \$ 18,204,180
- Actual cost: \$ 9,841,118
- Percent spent: 54%

Regional Transmission Main – Segment A2 (RTM A2)



PERFORMANCE INDICES (Favorable is > 1.0, Unfavorable is < 1.0)

Cost Performance Index, CPI = Earned Value / Actual Cost = 1.0

Schedule Performance Index, SPI = Earned Value / Planned Value = 0.7

Regional Transmission Main – Segment A2 (RTM A2)



OVERVIEW

- 4 miles of 24-48 inch diameter pipeline
- Portion of RTM system to convey treated water from SESWTF to City's distribution systems

NOTABLE PENDING/UPCOMING CHANGE ITEMS:

- CCO 001
 - Utility conflicts: \$149k
 - Paleontological monitoring: \$24k
 - Miscellaneous items: \$7k
- Utility conflicts: \$200k
- Additional paving and roadway improvements: \$120k

Recycled Water Transmission Main – Segment SW1B



OVERVIEW

- 3.9 miles of 10-48 inch diameter pipeline
- Portion of RWTM system to convey recycled water from FCRWRF to irrigation users

CONSTRUCTION SCHEDULE

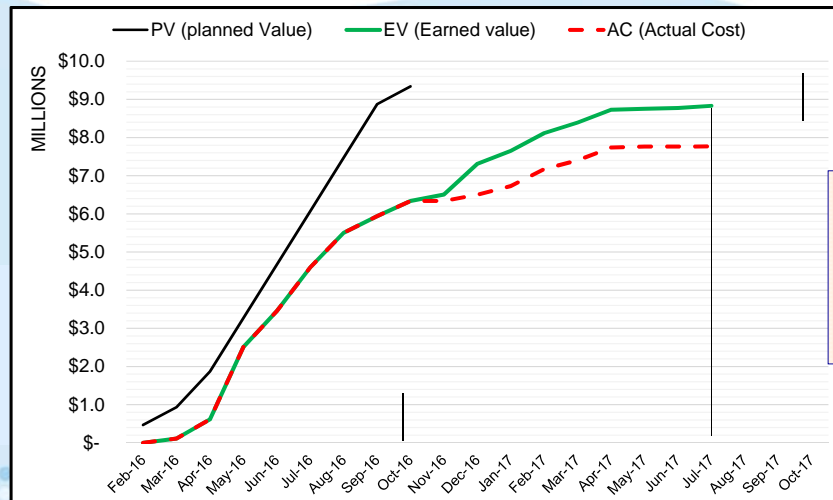
- Notice to proceed: 02/01/16
- Original duration: 255 days
- **Addl days: 0 change, 0 rain**
- Final completion: 10/12/16
- Time elapsed: 220%

** Not including \$1,008,635 LDs

CONTRACT VALUE

- Original contract: \$ 9,341,491
- Suppl budget: \$ 300,000
- **Change orders: \$ 0**
- Current contract: \$ 9,341,491
- Actual cost: \$ 7,768,012**
- Percent spent: 94%

Recycled Water Transmission Main – Segment SW1B



PERFORMANCE INDICES (Favorable is > 1.0, Unfavorable is < 1.0)

Cost Performance Index, CPI = Earned Value / Actual Cost = 1.1

Schedule Performance Index, SPI = Earned Value / Planned Value = n/a

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Recycled Water Transmission Main – Segment SW1B



OVERVIEW

- 3.9 miles of 10-48 inch diameter pipeline
- Portion of RWTM system to convey recycled water from FCRWRF to irrigation users

NOTABLE PENDING/UPCOMING CHANGE ITEMS:

- Currently considering claim for cost and schedule issues:
 - Sequencing complexities related to traffic control and permitting
 - FID crossing complexities related to irrigation season coord & change
 - Inclement weather

Recycled Water Transmission Main – Segment SW1C



OVERVIEW

- 1.6 miles of 24-36 inch diameter pipeline
- Portion of RWTM system to convey recycled water from FCRWRF to irrigation users

CONSTRUCTION SCHEDULE

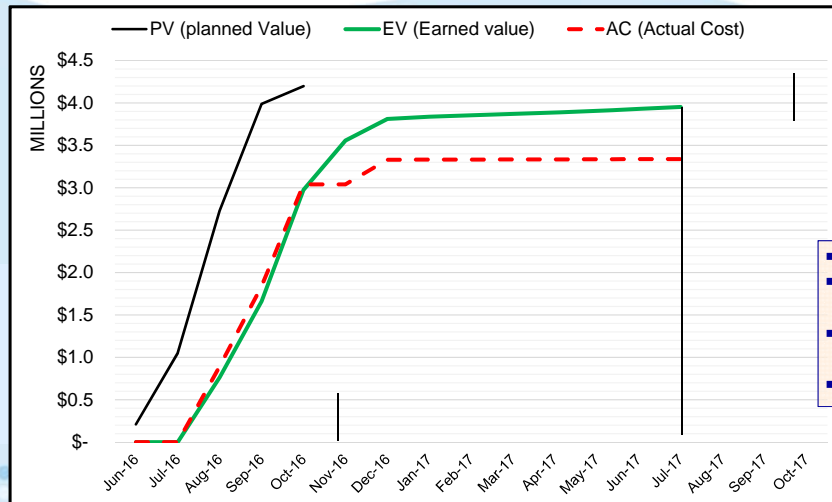
- Notice to proceed: 05/31/16
- Original duration: 155 days
- *Addl days: 0 change, 0 rain*
- Final completion: 11/01/16
- Time elapsed: 285%

** Not including \$826,387 LDs

CONTRACT VALUE

- Original contract: \$ 4,198,175
- Suppl budget: \$ 155,000
- *Change orders: \$ 269,718*
- Current contract: \$ 4,467,893
- Actual cost: \$ 3,337,984
- Percent spent: 93%

Recycled Water Transmission Main – Segment SW1C



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PERFORMANCE INDICES (Favorable is > 1.0, Unfavorable is < 1.0)

Cost Performance Index, CPI = Earned Value / Actual Cost = 1.2

Schedule Performance Index, SPI = Earned Value / Planned Value = n/a

Recycled Water Transmission Main – Segment SW1C



OVERVIEW

- 1.6 miles of 24-36 inch diameter pipeline
- Portion of RWTM system to convey recycled water from FCRWRF to irrigation users

NOTABLE PENDING/UPCOMING CHANGE ITEMS:

- Currently considering claim for cost and schedule issues:
 - Sequencing complexities related to traffic control and permitting
 - FID crossing complexities related to irrigation season coord & change
 - Inclement weather

Questions

www.RechargeFresno.com
1-888-FRESNOH2O

