



Large Construction Contracts Update Department of Public Utilities

Capital Project Oversight Board Meeting

May 07, 2017

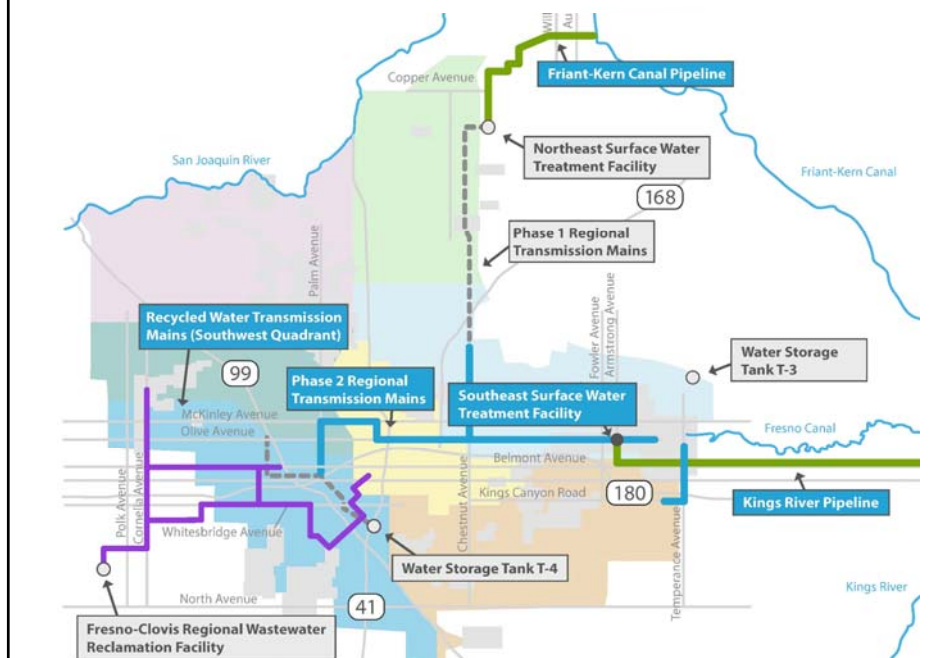
Discussion Topics



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



DPU Major Projects



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	Jun '18
<i>Potable Water</i>				
SE Surface Water Trmt Facility	✓	✓	✓ Dec '15	Jun '18
RTM Segment A1	✓	✓	✓ Aug '16	✓ Jan '18
RTM Segment A2	✓	✓	✓ Nov '16	✓ Mar '18
<i>Recycled Water</i>				
SW RWTM Segment SW1B	✓	✓	✓ Feb '16	✓ Jan '18
SW RWTM Segment SW1C	✓	✓	✓ May '16	✓ Sep '17
SW RWTM Segment SW1C2	✓	✓	✓ Oct '17	Jun '18
RTM Segment B/C	✓	✓	✓ Feb '18	Jan '19

Discussion Topics



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



Friant Kern Canal Pipeline (FKCP)



OVERVIEW

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

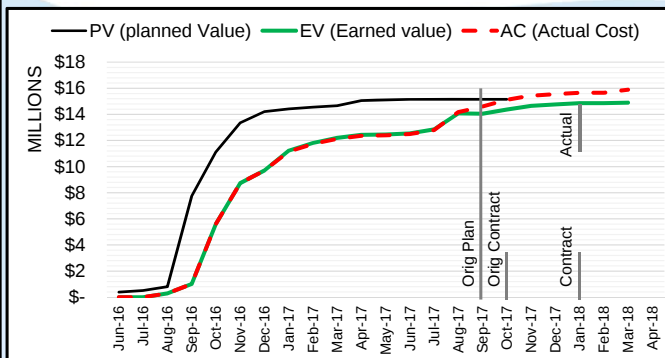
CONSTRUCTION SCHEDULE

- Notice to proceed: 05/31/16
- Original duration: 500 days
- **Additional time: 96 days**
- Final completion: 1/16/18

CONTRACT VALUE

- Original contract: \$ 15,157,862
- Suppl budget: \$ 300,000
- **Change orders: \$ 988,703**
- Current contract: \$ 16,146,565
- Actual cost: \$ 15,892,377
- Percent spent: 98%

Friant Kern Canal Pipeline (FKCP)



Cost Index, CPI =
 Earned/Actual = 0.9
Sched Index, SPI =
 Earned/Planned = 1.0

- Contractor originally planned early finish but was impacted by weather.
- 96 day contract extension for excessive rain days.
- Work completed on schedule.

NOTABLE PENDING/UPCOMING CHANGE ITEMS:

- Draft CCO 007
- Lost production and delay claims: ~ \$1.7M
 - Rock excavation
 - Design error and modifications

Kings River Pipeline (KRP)



OVERVIEW

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

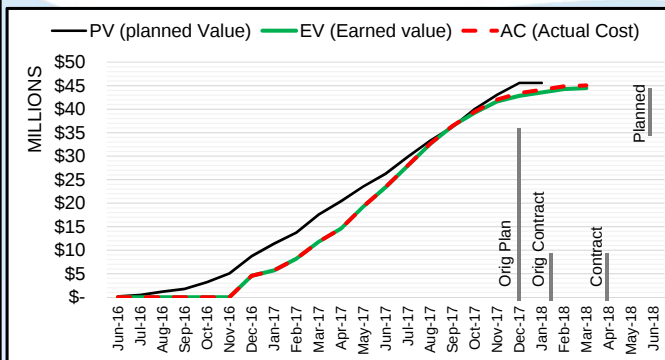
CONSTRUCTION SCHEDULE

- Notice to proceed: 06/27/16
- Original duration: 575 days
- **Additional time: 64 days**
- Final completion: 03/27/18
- Time elapsed: 105%

CONTRACT VALUE

- Original contract: \$ 45,583,750
- Suppl budget: \$ 500,000
- **Change orders: \$ 578,579**
- Current contract: \$ 46,162,329
- Actual cost: \$ 45,052,793
- Percent spent: 98%

Kings River Pipeline (KRP)



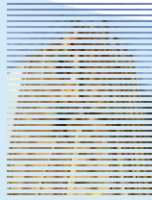
Cost Index, CPI =
 $\text{CPI} = \frac{\text{Earned}}{\text{Actual}} = 1.0$
Sched Index, SPI =
 $\text{SPI} = \frac{\text{Earned}}{\text{Planned}} = \text{N/A}$

- Contractor has completed pipeline and City now has Beneficial Use.
- Substantial Compl anticipated in May 2018, and Final Completion in June.

NOTABLE PENDING/UPCOMING CHANGE ITEMS:

- Draft CCO 005
- Unknown utilities and misc additional work: ~ 350k
- Potential changes and claims:
 - Soils changed conditions ~ \$3.7M
 - Lost production, delay & addl work ~ \$500k

Southeast Surface Water Treatment Facility



OVERVIEW

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

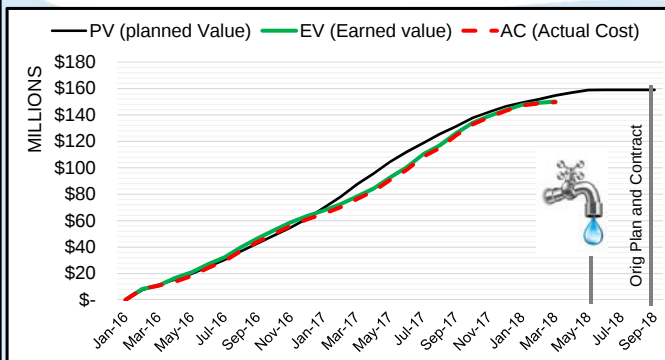
CONSTRUCTION SCHEDULE

- Notice to proceed: 12/31/15
- Original duration: 1000 days
- **Additional time: 3 days**
- Final completion: 09/28/18
- Time elapsed: 85%

CONTRACT VALUE

- Original contract: \$ 158,766,000
- Suppl budget: \$ 1,000,000
- Change orders: \$ 3,697,904
- Current contract: \$ 162,463,904
- Actual cost: \$ 148,762,544
- Percent spent: 92%

Southeast Surface Water Treatment Facility



Cost Index, CPI =
 Earned/Actual = 1.0
Sched Index, SPI =
 Earned/Planned = 1.0

▪ On schedule for completion as planned and before contract deadline.

NOTABLE PENDING/UPCOMING CHANGE ITEMS:

- Draft CCO 014
- Misc additional work: ~ 200k

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

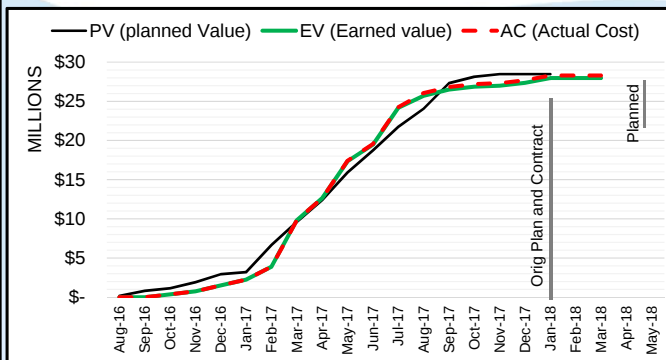
CONSTRUCTION SCHEDULE

- Notice to proceed: 08/29/16
- Original duration: 500 days
- **Additional time: 0 days**
- Final completion: 01/10/18
- Time elapsed: 122%

CONTRACT VALUE

- Original contract: \$ 28,471,884
- Suppl budget: \$ 300,000
- **Change orders: \$ 344,084**
- Current contract: \$ 28,815,968
- Actual cost: \$ 27,691,530
- Percent spent: 96%

Regional Transmission Main – Segment A1 (RTM A1)



Cost Index, CPI =
 Earned/Actual = 1.0
Sched Index, SPI =
 Earned/Planned = 1.0

- Substantial Compl achieved.
- Final Completion anticipated in May.

NOTABLE PENDING/UPCOMING CHANGE ITEMS:

- Draft CCO 005
- No other anticipated changes or claims

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

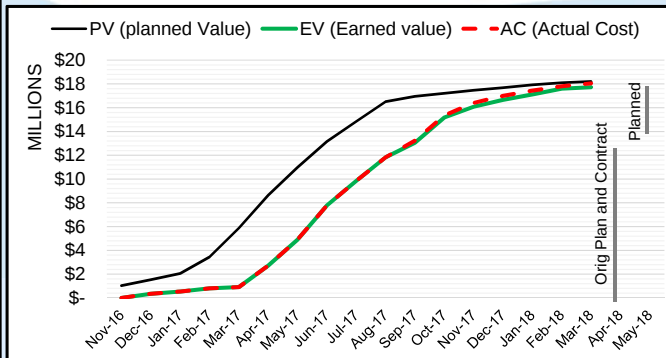
CONSTRUCTION SCHEDULE

- Notice to proceed: 11/08/16
- Original duration: 500 days
- **Additional time: 0 days**
- Final completion: 03/22/18
- Time elapsed: 108%

CONTRACT VALUE

- Original contract: \$ 18,204,180
- Suppl budget: \$ 300,000
- **Change orders: \$ 335,691**
- Current contract: \$ 18,539,871
- Actual cost: \$ 17,445,379
- Percent spent: 94%

Regional Transmission Main – Segment A2 (RTM A2)



Cost Index, CPI =
Earned/Actual = 1.0
Sched Index, SPI =
Earned/Planned = 1.0

- *Substantial Compl achieved.*
- *Final Completion anticipated in May.*

NOTABLE PENDING/UPCOMING CHANGE ITEMS:

- Draft CCO 005
- No other anticipated changes or claims

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

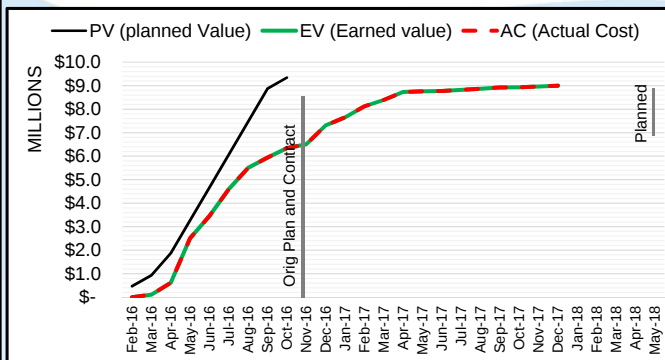
CONSTRUCTION SCHEDULE

- Notice to proceed: 02/01/16
- Original duration: 256 days
- **Additional time: 0 days**
- Final completion: 10/13/16
- Time elapsed: 320%

CONTRACT VALUE

- Original contract: \$ 9,341,491
- Suppl budget: \$ 300,000
- **Change orders: \$ 0**
- Current contract: \$ 9,341,491
- Actual cost: \$ 8,732,894
- Percent spent: 93%

Recycled Water Transmission Main – Segment SW1B



Cost Index, CPI =
 Earned/Actual = 1.0
Sched Index, SPI =
 Earned/Planned = N/A

- Substantial Compl achieved.
- Miscellaneous punch list work still to complete.
- Driving Contractor to complete work.
- Final Completion anticipated in May.

NOTABLE PENDING/UPCOMING CHANGE ITEMS:

- Draft CCO 001
- Pending claim in process for mediation

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

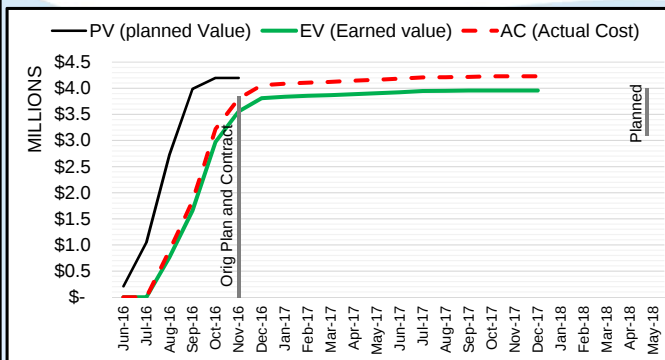
CONSTRUCTION SCHEDULE

- Notice to proceed: 05/31/16
- Original duration: 156 days
- **Additional time: 0 days**
- Final completion: 11/02/16
- Time elapsed: 449%

CONTRACT VALUE

- Original contract: \$ 4,198,175
- Suppl budget: \$ 155,000
- **Change orders: \$ 269,718**
- Current contract: \$ 4,467,893
- Actual cost: \$ 4,143,538
- Percent spent: 93%

Recycled Water Transmission Main – Segment SW1C



Cost Index, CPI =
 Earned/Actual = 1.0
Sched Index, SPI =
 Earned/Planned = N/A

- Substantial Compl achieved.
- Miscellaneous punch list work still to complete.
- Driving Contractor to complete work.
- Final Completion anticipated in May.

NOTABLE PENDING/UPCOMING CHANGE ITEMS:

- Draft CCO 002
- Pending claim in process for mediation

Recycled Water Transmission Main – Segment SW1C2



OVERVIEW

- 3.1 miles of 8-24 inch diameter pipe
- Portion of RWTM system to convey recycled water from FCRWRF to irrigation users

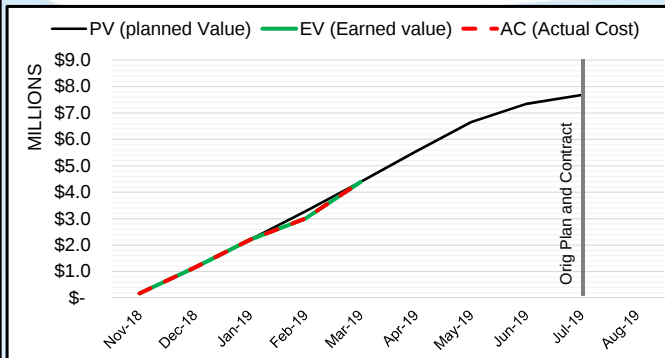
CONSTRUCTION SCHEDULE

- Notice to proceed: 10/26/17
- Original duration: 270 days
- **Additional time: 0 days**
- Final completion: 07/22/18
- Time elapsed: 69%

CONTRACT VALUE

- Original contract: \$ 7,682,290
- Suppl budget: \$ 300,000
- **Change orders: \$ 0**
- Current contract: \$ 7,682,290
- Actual cost: \$ 2,200,980
- Percent spent: 29%

Recycled Water Transmission Main – Segment SW1C2



Cost Index, CPI =
 Earned/Actual = 1.0
Sched Index, SPI =
 Earned/Planned = 1.0

▪ *On schedule for completion as planned and before contract deadline.*

NOTABLE PENDING/UPCOMING CHANGE ITEMS:

- Draft CCO 001
- Unknown utilities and misc additional work: ~ 150k

Discussion Topics



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



Large Construction Contract Change Performance Summary

Contract	Construction Value (excl. suppl. budget & VE)	% Compl	Total Approved Change		Owner Requested		Design Error or Omission		Differing Site Condition		Other (excl. VE)	
	\$	%	\$	%	\$	%	\$	%	\$	%	\$	%
FKCP	\$14,857,862	100%	\$1,084,611	7.3%	\$713,376	4.8%	\$61,150	0.4%	\$299,135	2.0%	\$10,950	0.1%
KRP	\$45,083,750	99%	\$578,583	1.3%	\$129,961	0.3%	\$0	0.0%	\$245,624	0.5%	\$202,999	0.5%
SESWTF	\$157,766,000	92%	\$5,847,014	3.7%	\$4,844,017	3.1%	\$892,702	0.6%	\$398,112	0.3%	(\$287,817)	-0.2%
RTM-A1	\$28,171,884	97%	\$520,953	1.8%	\$193,037	0.7%	\$17,253	0.1%	\$183,935	0.7%	\$126,728	0.4%
RTM-A2	\$17,904,180	96%	\$456,970	2.6%	(\$2,890)	0.0%	\$33,570	0.2%	\$408,290	2.3%	\$17,999	0.1%
SW1B	\$9,041,491	97%	(\$38,195)	-0.4%	\$0	0.0%	\$0	0.0%	\$37,654	0.4%	(\$75,849)	-0.8%
SW1C	\$4,043,175	96%	\$280,011	6.9%	\$26,688	0.7%	\$4,013	0.1%	\$249,310	6.2%	\$0	0.0%
SW1C2	\$7,382,290	30%	\$140,500	1.9%	(\$4,500)	-0.1%	\$0	0.0%	\$145,000	2.0%	\$0	0.0%
Total	\$284,250,632	93%	\$8,870,447	3.1%	\$5,899,689	2.1%	\$1,008,688	0.4%	\$1,967,061	0.7%	(\$4,990)	0.0%

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