



RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: JULY 23, 2018

GENERAL MANAGER'S REPORT

ITEM NO: 17

Riverside Public Utilities

Open Work Orders Greater than \$200,000

As of June 30, 2018

Riverside Public Utilities
Open Capital Work Order Summary Report - Electric Fund
June 2018

Project / Subproject or WO	Project Description	Board Approval Date	Board Approved Estimate ⁽⁶⁾	Project Estimate	Year to Date	Life to Date	Available Balance	Last Activity Date	Job Status		Project Status
					Total as of 6/30/2018	Total as of 6/30/2018			(Based on Proj. Est.)		
									% Spent	% Completed	

Open Work Orders/Projects with Budgeted or Actual expenditures > \$200,000

Advanced Technology⁽²⁾

1619634	Operational Data Management System - Electric	05/09/16	4,907,000	2,474,500	296,863	2,164,413	310,087	06/22/18	87%	70%	In implementation phase.
1707248	Advanced Metering Infrastructure - Electric	06/12/17	3,000,000	790,000	-	-	790,000	05/23/18	0%	2%	Developing business case.
Subtotal				3,264,500	296,863	2,164,413	1,100,087				

Cable Replacement

1713398	Canyon Crest Area 1F	01/08/18	739,000	739,000	47,406	54,402	684,598	05/31/18	7%	50%	In construction.
1409723	Canyon Crest Area Circuit 1215	11/06/15	1,175,000	1,175,000	4,175	1,032,476	142,524	02/08/18	88%	95%	In Litigation
1319813	Canyon Crest Area Circuit 1218	04/10/17	967,000	967,000	318,442	734,567	232,433	03/31/18	76%	80%	In construction.
Subtotal				2,881,000	370,023	1,821,445	1,059,555				

CIS Banner Upgrade

1104202	CIS Replacement	06/01/12	9,200,000	8,859,000	176,857	8,419,081	439,919	05/17/18	95%	95%	Completed, pending closure.
Subtotal				8,859,000	176,857	8,419,081	439,919				

City-Wide Communciations Network

1719921	Magnolia Avenue	04/24/17	2,189,489	2,189,489	1,107,042	1,134,875	1,054,614	06/12/18	52%	20%	In construction.
1524282	Land Mobile Radio (LMR) system (Electric Portion)	09/26/16	3,000,000	1,650,000	118,980	1,687,154	(37,154)	05/03/18	102%	95%	Completed, pending closure.
1423750	Riverside Substation to Hunter Substation	04/24/17	465,000	465,000	216,890	247,700	217,300	05/17/18	53%	15%	In construction.
Subtotal				4,304,489	1,442,912	3,069,729	1,234,760				

Distribution Automation Reliability

1309568	Distribution Automation Program	01/18/13	960,000	960,000	2,674	682,683	277,317	03/01/18	71%	65%	In construction.
Subtotal				960,000	2,674	682,683	277,317				

GO 165 Upgrades/Relocations

Various	GO-165 Pole Replacements - Citywide	09/25/17	1,125,000	1,125,000	-	143,459	981,541	Various	13%	3%	Project start date 02/1/18.
1804337	Four (4) Electrical Vaults & Manholes	09/25/17	557,000	557,000	490,297	490,297	66,703	06/14/18	88%	0%	In construction.
Subtotal				1,682,000	490,297	633,756	1,048,244				

Major 4/12Kv Conversions

1521822	Plaza Substation - Circuit 456	09/18/15	933,000	933,000	49,069	180,995	752,005	06/15/18	19%	25%	In construction.
1521820	Plaza Substation - Circuit 452	09/18/15	1,446,000	1,446,000	598,495	1,267,741	178,259	04/05/18	88%	90%	In construction.
1503125	Magnolia Substation - Circuit 46	04/17/15	1,833,000	1,833,000	581,110	2,182,754	(349,754)	06/01/18	119%	95%	In construction.
1501824	Plaza Substation - Circuit 454	09/18/15	1,349,000	1,349,000	96	1,367,056	(18,056)	03/01/18	101%	100%	Completed, pending closure.
1411795	Magnolia - Underground Conversion	04/02/15	2,250,000	2,250,000	44,871	1,679,199	570,801	03/01/18	75%	95%	In construction.
1319390	Magnolia - Overhead Conversion	09/19/14	1,577,100	1,577,100	60,238	1,846,716	(269,616)	05/03/18	117%	95%	In construction.
1808451	Plaza Substation - Circuit 443	03/29/18	415,000	415,000	31,014	31,014	383,986	06/15/18	7%	7%	In construction.
1708710	Plaza Substation - Circuit 458	04/09/18	1,170,000	1,170,000	70,443	70,717	1,099,283	06/15/18	6%	5%	In construction.
Subtotal				10,973,100	1,435,336	8,626,192	2,346,908				

Project / Subproject or WO	Project Description	Board Approval Date	Board Approved Estimate ⁽⁶⁾	Project Estimate	Year to Date	Life to Date	Available Balance	Last Activity Date	Job Status		Project Status
					Total as of 6/30/2018	Total as of 6/30/2018			(Based on Proj. Est.)	% Spent	
Major Overhead/Underground Conversions											
0913192	Tyler Street Widening	08/07/15	816,000	816,000	101,795	973,503	(157,503)	12/01/17	119%	95%	Completed, pending as-builts.
	Subtotal			816,000	101,795	973,503	(157,503)				
Major Street Light Projects											
1725687	Wells-Arlanza Sidewalk Improvements Project	01/08/18	460,000	460,000	3,975	7,602	452,398	05/31/18	2%	0%	Pending start date.
1722321	Norte Vista Sidwalk Improvements Project	02/12/18	888,000	888,000	32,124	50,287	837,713	06/15/18	6%	0%	Pending start date
1611216	Citywide Streetlight L.E.D. Conversion	07/25/16	1,150,000	1,150,000	165,244	367,241	782,759	05/03/08	32%	45%	In design.
	Subtotal			2,498,000	201,343	425,130	2,072,870				
Major Tract Distribution											
1518525	Jurupa Avenue - New Tract 28987	11/06/15	320,000	320,000	-	13,740	306,260	06/01/16	4%	0%	On-hold.
070016 / 07	Tract 29596 Krameria Ave ⁽³⁾	07/20/07	500,000	500,000	-	468,292	31,708	03/13/14	94%	95%	In construction.
070016 / 02	Tract 29515 Phase 2 & Sewer Lift Station ⁽⁴⁾	11/16/07	345,000	345,000	96	344,515	485	11/02/17	100%	95%	Completed, pending as-builts.
	Subtotal			1,165,000	96	826,547	338,453				
Major Transmission Line Projects											
1503115	Freeman-Kaiser-Harvey Lynn	12/18/15	300,000	300,000	4,712	180,002	119,998	03/27/18	60%	50%	Pending start date ⁽⁷⁾
	Subtotal			300,000	4,712	180,002	119,998				
Neighborhood Streetlight Retrofit											
1523553	Wood Streets Streetlights Phase 2	02/13/17	2,300,000	2,300,000	1,627,738	2,113,238	186,762	05/31/18	92%	95%	Completed, pending as-builts.
080022 / 01	Wood Streets Streetlights Phase I ⁽⁵⁾	11/30/17	1,909,600	1,909,600	715	1,792,375	117,225	03/22/18	94%	95%	Completed, pending as-builts.
	Subtotal			4,209,600	1,628,453	3,905,613	303,987				
RTRP and STP Project											
642975	Riverside Transmission Reliability Project (RTRP) ⁽¹⁾	02/08/18	44,315,521	44,315,521	2,279,898	28,338,639	15,976,882	06/22/18	64%	15%	In design.
0812940	Sub-Transmission Project (STP) ⁽¹⁾	11/28/17	24,000,000	24,000,000	6,268	9,742,816	14,257,184	05/31/18	41%	99%	Completed, pending as-builts.
	Subtotal			68,315,521	2,286,166	38,081,455	30,234,066				
SCADA											
1024305	Electric SCADA System Upgrades	08/10/16	2,938,307	2,938,307	-	2,737,329	200,978	08/10/16	93%	99%	Completed, pending closure.
	Subtotal			2,938,307	-	2,737,329	200,978				
Substation Bus and Upgrades											
1826061	Arc Flash Mitigatino Proj. at Riverside power plants	06/11/18	497,000	497,000	-	-	497,000	03/28/18	0%	3%	Pending Construction
1808341	Substation Utility Storage Facility	06/11/18	407,385	407,385	12,226	12,226	395,159	05/03/18	3%	0%	Pending start date.
1814007	Substation Capacitor Upgrade Project	01/11/18	5,306,000	5,306,000	645,371	645,371	4,660,629	05/17/18	12%	0%	Pending start date.
1812830	Nine (9) Substation Battery Chargers Upgrade Proj.	02/08/18	384,000	384,000	165,733	165,733	218,267	06/12/18	43%	10%	Pending Construction
1603079	Springs & Orangecrest	01/25/18	1,700,000	1,700,000	126,338	1,245,962	454,038	05/31/18	73%	60%	Pending construction.
1601400	Springs, Freeman and Mt. View	02/08/18	5,530,000	5,530,000	1,670,008	4,450,527	1,079,473	05/24/18	80%	45%	In construction.
1507210	RERC Control Power Improvement	02/08/18	272,000	272,000	195,387	213,873	58,127	05/27/18	77%	88%	Pending on add. Equipment
1311245	Orangecrest, Riverside,Springs & La Colina ⁽⁸⁾	02/08/18	1,925,805	1,925,805	-	1,919,696	6,109	05/31/18	100%	85%	In construction.
1411145	La Colina Switchgear 3 & 4 ⁽⁸⁾	02/12/18	534,051	534,051	273,461	345,983	188,068	06/13/18	65%	25%	On-hold.
1817274	Vista Substation	02/26/18	836,175	836,175	782,757	782,757	53,418	04/13/18	94%	10%	SCE issued Notice to Proceed
1816163	Substation Automation Upgrade Project	02/26/18	2,027,679	2,027,679	620,658	620,658	1,407,021	06/13/18	31%	2%	Indesign

Project / Subproject or WO	Project Description	Board Approval Date	Board Approved Estimate ⁽⁶⁾	Project Estimate	Year to Date	Life to Date	Available Balance	Last Activity Date	Job Status		Project Status
					Total as of 6/30/2018	Total as of 6/30/2018			(Based on Proj. Est.)	% Spent	
1407577	Metal Gate Replacement	04/09/18	337,699	337,699	2,395	17,377	320,322	03/27/18	5%	5%	Pending construction
Subtotal				19,757,794	4,494,334	10,420,163	9,337,631				
Substation Transformer Addition											
1822318	Multi Substation Transformer Upgrade/ Recondition	06/25/18	3,082,617	3,082,617	1,991	1,991	3,080,626	05/17/18	0%	0%	Pending Board Approval
1816795	Hunter Substation Rebuild Project	01/11/18	630,000	587,000	583,988	583,988	3,012	05/31/18	99%	0%	In procurement phase.
1619571	Plaza Substation	11/30/17	460,000	460,000	24,742	453,530	6,470	11/30/17	99%	95%	Completed, pending as-builts.
1514752	Mobile Substation #3	02/01/18	2,198,993	2,198,993	328,284	2,182,593	16,400	05/31/18	99%	95%	In commissioning phase.
1816638	Freeman Substation & Mt. View Substation	05/14/18	4,202,827	4,202,827	28,405	28,405	4,174,422	05/27/18	1%	1%	In procurement phase.
Subtotal				10,531,437	967,409	3,250,507	7,280,930				
SCE Condemnation Costs											
1704094	Annexation 95 & 99 areas	12/29/17	444,000	444,000	443,792	443,792	208	12/29/17	100%	95%	Pending cutover to RPU system.
Subtotal				444,000	443,792	443,792	208				
Total Electric Fund - Open Work Orders				143,899,748	14,343,064	86,661,340	57,238,408				

Notes:

(1) RTRP Work Orders 642975 and 0812940 (including related sub-work orders) roll up into Project 050009, Sub-Project 050009-01.
The total RTRP budget as approved by Council on 5-15-07 and 6-23-09 is \$106,245,000.
The total budget for RTRP Work Order 642975 (including various sub-work orders) as last approved by Board on 10-17-14 is \$42,605,521. RTRP costs are charged to SCE reimbursement Acct 470686 or to non-reimbursable Acct. .
The total budget for STP Work Order 0812940 (including various sub-work orders) as last approved by Board on 11-6-09 is \$24,000,000. All STP costs are charged to non-reimbursable Acct. 470685.

(2) Advanced Technology projects includes both capital expenditures and professional services.

(3) Work includes both WO 0704432 & 0704434

(4) Work includes both WO 0702819 & 0702820

(5) Work includes both WO 809099 & 0809101

(6) Board approved estimate is the total amount of the work order which can include operating & maintenance costs as well as combined Electric & Water projects.

(7) Expenditures reflect equipment purchases such as poles and switches for the project.

(8) Reclass of prior period expenses between wo1311245 and 1411145

Items in BLUE represent work orders with no activity in the last 60 days.

Riverside Public Utilities
Open Capital Work Order Summary Report - Water Fund
June 2018

Project / Subproject or WO	Project Description	Board Approval Date	Board Approved Estimate ⁽²⁾	Project Estimate	Year to Date	Life to Date	Available Balance	Last Activity Date	Job Status		Project Status
					Total as of 06/30/2018	Total as of 06/30/2018			(Based on Proj. Est.)		
									% Spent	% Completed	
Open Work Orders/Projects with Budgeted or Actual expenditures > \$200,000											
Advanced Technology ⁽¹⁾											
1707248	Advanced Metering Infrastructure - Water	06/12/17	3,000,000	460,000	-	-	460,000	09/23/16	0%	2%	Developing business case.
1619634	Operational Data Management System - Water	05/09/16	4,907,000	1,332,500	212,813	1,189,202	143,298	05/09/16	89%	70%	In implementation phase.
	Subtotal			1,792,500	212,813	1,189,202	603,298				
Asset Management System											
1424073	Water Asset Management	06/20/14	2,530,400	2,048,689	255,070	2,396,038	(347,349)	03/14/18	117%	100%	Completed, pending closure.
	Subtotal			2,048,689	255,070	2,396,038	(347,349)				
Aquifer Storage & Recovery System											
1202806	Riverside North Aquifer Storage & Recovery	10/07/11	1,800,000	1,800,000	23,133	447,714	1,352,286	07/01/17	25%	10%	In environmental evaluation phase.
	Subtotal			1,800,000	23,133	447,714	1,352,286				
Development Costs											
1504840	Santa Ana River Habitat Conservation	09/05/14	325,000	325,000	-	134,256	190,744	09/30/14	41%	25%	In biological evaluation phase.
	Subtotal			325,000	-	134,256	190,744				
Facility Rehabilitation											
1806866	John W. North Treatment Plant Trains 1,2,3	10/23/17	530,000	530,000	507,922	507,922	22,078	05/16/18	96%	100%	Completed, pending closure.
1806142	Garner C Groundwater Well	11/27/17	361,000	361,000	32,559	32,559	328,441	06/01/18	9%	0%	Pending start date.
1806141	Warren 1 Groundwater Well	11/27/17	346,000	346,000	31,856	31,856	314,144	03/22/18	9%	0%	Project started 1/16/2018
1806140	Gage 66-1 Groundwater Well	11/27/17	381,000	381,000	29,254	29,254	351,746	05/03/18	8%	0%	Pending start date.
1806139	Gage 92-1 Groundwater Well	11/27/17	413,000	413,000	6,446	6,446	406,554	05/31/18	2%	0%	Pending start date.
1801849	Mockingbird Canyon Pump Station	01/08/18	203,000	203,000	181,328	181,328	21,672	05/31/18	89%	0%	Pending start date.
1727627	John W. North Treatment Plant Trains 4,5	07/10/17	368,000	368,000	369,828	369,828	(1,828)	04/30/18	100%	100%	Completed, pending closure.
1712678	Flume 3 Groundwater Well	02/13/17	255,672	255,672	15,200	151,539	104,133	03/01/18	59%	100%	Completed, pending closure.
1712677	Gage 92-3 Groundwater Well	02/13/17	264,626	264,626	188,966	199,349	65,277	03/07/18	75%	95%	Completed pending payment
1712676	Tippecanoe Groundwater Well	02/13/17	301,454	301,454	33,123	228,986	72,468	04/05/18	76%	100%	Completed, pending closure.
1712675	Raub 6 Groundwater Well	02/13/17	297,582	297,582	254,883	266,740	30,842	06/07/18	90%	40%	In construction.
1712389	Raub 7 Groundwater Well	02/13/17	267,288	267,288	27,216	191,870	75,418	10/19/17	72%	100%	Completed, pending closure.
1727342	Gage 51-1 Groundwater Well	11/27/17	337,000	337,000	646,300	647,537	(310,537)	06/07/18	192%	45%	Started April 25, expecting to be done by June
1524282	Land Mobile Radio (LMR) system (Wtr Portion)	09/26/16	3,000,000	1,350,000	-	1,283,051	66,949	10/20/16	95%	95%	Completed,pending commisioning.
1508449	Palmyrita Well	11/07/14	215,000	215,000	1,887	8,932	206,068	11/16/17	4%	5%	On-hold.

Riverside Public Utilities
Open Capital Work Order Summary Report - Water Fund
June 2018

Project / Subproject or WO	Project Description	Board Approval Date	Board Approved Estimate ⁽²⁾	Project Estimate	Year to Date	Life to Date	Available Balance	Last Activity Date	Job Status		Project Status
					Total as of 06/30/2018	Total as of 06/30/2018			(Based on Proj. Est.)	% Spent	
Main Replacements				Subtotal	5,890,622	2,326,767	4,137,197	1,753,425			
1602941	Larchwood Place	10/16/15	895,000	865,000	4,147	477,602	387,398	03/31/18	55%	100%	Completed, pending closure.
1507007	Jasmine and Columbus	10/03/14	679,000	679,000	47,267	47,267	631,733	05/31/18	7%	0%	On-hold.
1415931	California and Monroe	12/12/14	973,500	973,500	-	820,305	153,195	05/04/17	84%	95%	On-hold. In litigation.
				Subtotal	2,517,500	51,414	1,345,174	1,172,326			
Meters											
1800797	Meter replacement throught the City of Riverside	01/22/18	263,600	263,600	237,462	237,462	26,138	05/23/18	90%	20%	In construction.
				Subtotal	263,600	237,462	237,462	26,138			
Recycled Water Facilities											
1722078	Jackson St - Phase 1 & 2 Water Sites Retrofit	04/24/17	434,370	434,370	49,624	59,587	374,783	04/04/18	14%	18%	In construction.
1623724	Jackson Street - Phase 1B (Utility Potholing/Design)	10/23/17	433,000	433,000	140,427	187,167	245,833	03/31/18	39%	50%	On Hold
1521905	Jackson Street - Phase 1	11/27/17	9,039,000	8,839,000	6,002,076	7,040,606	1,798,394	06/22/18	80%	55%	In construction.
				Subtotal	9,706,370	6,192,127	7,287,360	2,419,010			
System Expansion											
1615173	Water Cust. Development - 58 Magnolia Ctr.	(3)	(3)	237,767	262,912	262,912	(25,145)	03/31/18	111%	90%	Pending pavement completion.
				Subtotal	237,767	262,912	262,912	(25,145)			
Transmission Mains											
1612632	Utility Pothole Work - Magnolia Ave	02/26/18	5,700,000	5,700,000	376,850	396,839	5,303,161	05/31/18	7%	100%	Completed, pending closure.
				Subtotal	5,700,000	376,850	396,839	5,303,161			
Utility Agreement Projects - Caltrans SR-91 HOV											
1112062	UA 21699 - Misc. Utility Relocations	11/19/10	1,555,000	1,555,000	-	486,936	1,068,064	05/17/18	31%	99%	Completed, pending closure.
1112059	UA 21702 - Ivy St Bridge	08/19/11	1,600,000	1,600,000	-	1,333,551	266,449	09/27/17	83%	99%	Completed, pending closure.
				Subtotal	3,155,000	-	1,820,487	1,334,513			
Total Water Fund - Open Work Orders					33,437,048	9,938,547	19,654,641	13,782,407			

NOTE:
(1) Advanced Technology projects includes both capital expenditures and professional services.
(2) Board approved estimate is the total amount of the work order which can include operating & maintenance costs as well as combined Electric & Water projects.
(3) 100% Customer funded project

Items in **blue** represent work orders with no activity in the last 60 days.



RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: JULY 23, 2018

GENERAL MANAGER'S REPORT

ITEM NO: 17

Riverside Public Utilities

Closed Work Order Reports

As of June 30, 2018

Riverside Public Utilities
Closed Capital Work Order Summary Report - Electric Fund
June 2018

Project / Subproject or WO	Project Description	Start Date	End Date	Board Approved Estimate	Final Project Cost	Variance	% Variance
----------------------------------	---------------------	------------	----------	-------------------------------	--------------------------	----------	------------

CLOSED Capital Work Orders with Budget or Actual Expenditures > \$200,000

Please note: No Closed Electric Work Orders over \$200,000
to report for the month of June 2018.

Total Electric Fund - Closed Work Orders

\$ -	\$ -	\$ -
------	------	------

Riverside Public Utilities
Closed Capital Work Order Summary Report - Water Fund
June 2018

Project / Subproject or WO	Project Description	Start Date	End Date	Board Approved Estimate	Final Project Cost	Variance	% Variance
----------------------------------	---------------------	------------	----------	-------------------------------	--------------------------	----------	------------

CLOSED Capital Work Orders with Budget or Actual expenditures > \$200,000

Main Replacements

1422097	Mary Street and Indiana Avenue Main Replacement	9/7/2016	5/9/2018	\$ 2,017,000	\$ 1,795,020	\$ 221,980	11.01%
---------	---	----------	----------	--------------	--------------	------------	--------

<p><i>1) Note on Final Project Cost:</i></p> <p>Project was completed less than the estimated cost due to credits RPU realized as a result of a reduction in the scope of work and the elimination of a few bid items that were not needed.</p>
<p><i>2) Impact to Customer Service:</i></p> <p>Provides enhanced customer safety and overall improvements to a reliable water source and delivery system.</p>
<p><i>3) Impact to System Reliability:</i></p> <p>Due to installation of newer pipe, system reliability and RPU's response time in the event of a emergency pipe leak will improve.</p>

1513392	Construction of the Colorado Avenue and Toyon Road Water Distribution Main Replacement Project	7/1/2016	5/31/2018	\$ 2,978,000	\$ 2,615,808	\$ 362,192	12.16%
---------	--	----------	-----------	--------------	--------------	------------	--------

<p><i>1) Note on Final Project Cost:</i></p> <p>Project was completed less than the estimated cost due to credits RPU realized as a result of a reduction in the scope of work and the elimination of a few bid items that were not needed.</p>
<p><i>2) Impact to Customer Service:</i></p> <p>Provides enhanced customer safety and overall improvements to a reliable water source and delivery system.</p>
<p><i>3) Impact to System Reliability:</i></p> <p>Due to installation of newer pipe, system reliability and RPU's response time in the event of a emergency pipe leak will improve.</p>

Riverside Public Utilities
Closed Capital Work Order Summary Report - Water Fund
June 2018

Project / Subproject or WO	Project Description	Start Date	End Date	Board Approved Estimate	Final Project Cost	Variance	% Variance
CLOSED Capital Work Orders with Budget or Actual expenditures > \$200,000							
1619730	Construction of the Tenth and Eleventh Street Water Main Replacement Project	8/22/2016	5/25/2018	\$ 2,245,000	\$ 2,165,658	\$ 79,342	3.53%
<div> <div>1) <i>Note on Final Project Cost:</i></div> <div>Project was completed less than the estimated cost due to credits RPU realized as a result of a reduction in the scope of work and the elimination of a few bid items that were not needed.</div> </div>							
<div> <div>2) <i>Impact to Customer Service:</i></div> <div>Provides enhanced customer safety and overall improvements to a reliable water source and delivery system.</div> </div>							
<div> <div>3) <i>Impact to System Reliability:</i></div> <div>Due to installation of newer pipe, system reliability and RPU's response time in the event of a emergency pipe leak will improve.</div> </div>							

Total Water Fund - Closed Work Orders

<u>\$ 7,240,000</u>	<u>\$ 6,576,485</u>	<u>\$ 663,515</u>
---------------------	---------------------	-------------------