



RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: FEBRUARY 26, 2018

GENERAL MANAGER'S REPORT

ITEM NO: 17

Riverside Public Utilities

Open Work Orders Greater than \$200,000

As of January 30, 2018

Riverside Public Utilities
Open Capital Work Order Summary Report - Electric Fund
January 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 (Based on Proj. Est.)		Project Status
					Total as of 1/31/2018	Total as of 1/31/2018			% 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	3,189,500	3,189,500	110,706	1,978,256	1,211,244	10/25/17	62%	70%	In implementation phase.
1707248	Advanced Metering Infrastructure - Electric	06/12/17	3,000,000	1,890,000	-	-	1,890,000	09/23/16	0%	2%	Developing business case.
Subtotal				5,079,500	110,706	1,978,256	3,101,244				

Cable Replacement

1713398	Canyon Crest Area 1F	01/08/18	739,000	739,000	26,378	33,374	705,626	01/11/18	5%	0%	Pending start date.
1409723	Canyon Crest Area Circuit 1215	11/06/15	1,175,000	1,175,000	4,087	1,032,388	142,612	11/02/17	88%	95%	As-builts in progress.
1319813	Canyon Crest Area Circuit 1218	04/10/17	967,000	967,000	143,290	722,619	244,381	01/26/18	75%	80%	In construction.
Subtotal				2,881,000	173,755	1,788,381	1,092,619				

CIS Banner Upgrade

1104202	CIS Replacement	06/01/12	8,859,000	8,859,000	62,775	8,304,998	554,002	11/30/16	94%	95%	Completed, pending closure.
Subtotal				8,859,000	62,775	8,304,998	554,002				

City-Wide Communciations Network

1719921	Magnolia Avenue	04/24/17	2,189,489	2,189,489	40,623	68,456	2,121,033	01/11/18	3%	20%	In construction.
1524282	Land Mobile Radio (LMR) system (Electric Portion)	09/26/16	3,000,000	1,650,000	118,292	1,686,466	(36,466)	11/30/17	102%	95%	Completed, pending closure.
1423750	Riverside Substation to Hunter Substation	04/24/17	465,000	465,000	57,085	87,930	377,070	01/26/18	19%	15%	In construction.
Subtotal				4,304,489	216,000	1,842,852	2,461,637				

Distribution Automation Reliability

1309568	Distribution Automation Program	01/18/13	960,000	960,000	2,616	682,626	277,374	12/27/17	71%	65%	In construction.
Subtotal				960,000	2,616	682,626	277,374				

GO 165 Upgrades/Relocations

Various	GO-165 Pole Replacements - Citywide	09/25/17	1,125,000	1,125,000	443	43,326	1,081,674	07/27/17	4%	3%	Project start date 02/1/18.
1804337	Four (4) Electrical Vaults & Manholes	09/25/17	557,000	557,000	2,046	2,046	554,954	10/27/17	0%	0%	Project start date 02/1/18.
Subtotal				1,682,000	2,489	45,372	1,636,628				

Riverside Public Utilities
Open Capital Work Order Summary Report - Electric Fund
January 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 (Based on Proj. Est.)		Project Status
					Total as of 1/31/2018	Total as of 1/31/2018			% Spent	% Completed	
Major 4/12Kv Conversions											
1521822	Plaza Substation - Circuit 456	09/18/15	933,000	933,000	-	131,926	801,074	06/01/17	14%	25%	In construction.
1521820	Plaza Substation - Circuit 452	09/18/15	1,446,000	1,446,000	424,618	1,095,607	350,393	01/26/18	76%	75%	In construction.
1503125	Magnolia Substation - Circuit 46	04/17/15	1,833,000	1,833,000	357,755	1,959,400	(126,400)	12/31/17	107%	95%	In construction.
1501824	Plaza Substation - Circuit 454	09/18/15	1,349,000	1,349,000	96	1,367,056	(18,056)	01/18/18	101%	100%	Completed, pending closure.
1411795	Magnolia - Underground Conversion	04/02/15	2,250,000	2,250,000	32,501	1,666,829	583,171	12/31/17	74%	90%	In construction.
1319390	Magnolia - Overhead Conversion	09/19/14	1,577,100	1,577,100	13,915	1,808,283	(231,183)	01/26/18	115%	95%	In construction.
	Subtotal			9,388,100	828,885	8,029,101	1,358,999				
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	2,120	5,747	454,253	12/14/17	1%	0%	Pending start date.
1611216	Citywide Streetlight L.E.D. Conversion	07/25/16	1,150,000	1,150,000	22,916	224,913	925,087	12/14/17	20%	20%	In design.
1518574	Tyler Street Widening Project	08/07/15	141,000	141,000	(101,314)	132,081	8,919	12/01/17	85%	95%	Completed, pending as-builts.
	Subtotal			1,751,000	(76,278)	362,741	1,388,259				
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	3,676	179,055	120,945	12/27/17	60%	50%	Pending start date ⁽⁷⁾
	Subtotal			300,000	3,676	179,055	120,945				
Neighborhood Streetlight Retrofit											
1523553	Wood Streets Streetlights Phase 2	02/13/17	2,300,000	2,300,000	1,151,340	2,111,748	188,252	01/24/18	92%	95%	Completed, pending as-builts.
080022 / 01	Wood Streets Streetlights Phase I ⁽⁵⁾	10/18/13	1,909,600	1,909,600	449	1,792,108	117,492	11/30/17	94%	95%	Completed, pending as-builts.
	Subtotal			4,209,600	1,151,789	3,903,856	305,744				

Riverside Public Utilities
Open Capital Work Order Summary Report - Electric Fund
January 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 (Based on Proj. Est.)		Project Status
					Total as of 1/31/2018	Total as of 1/31/2018			% Spent	% Completed	
RTRP and STP Project											
642975	230 KV Station	03/05/15	42,605,521	42,605,521	321,116	26,379,857	16,225,664	01/24/18	62%	15%	In design.
812940	69 KV Station ⁽¹⁾	11/06/09	24,000,000	24,096,844	6,252	18,312,620	5,784,224	11/28/17	76%	99%	Completed, pending as-builts.
	Subtotal			66,702,365	327,368	44,692,477	22,009,888				
SCADA											
1024305	Electric SCADA System Upgrades	06/27/16	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											
1814007	Substation Capacitor Upgrade Project	01/08/18	5,306,000	5,306,000	1,515	1,515	5,304,485	01/11/18	0%	0%	Pending start date.
1603079	Springs & Orangecrest	02/19/16	1,700,000	1,700,000	1,135	1,120,759	579,241	01/11/18	66%	60%	Pending construction.
1601400	Springs, Freeman and Mt. View	07/25/16	5,530,000	5,530,000	156,036	2,935,646	2,594,354	01/11/18	53%	45%	In construction.
1507210	RERC Control Power Improvement	10/23/17	272,000	272,000	8,379	26,864	245,136	12/28/17	10%	0%	In procurement phase.
1311245	Orangecrest, Riverside, Springs & La Colina	03/21/14	1,925,805	1,925,805	(71,318)	1,900,088	25,717	01/11/18	99%	85%	In construction.
1411145	La Colina Switchgear 3 & 4	03/21/14	534,051	534,051	188,212	260,734	273,317	09/22/17	49%	25%	On-hold.
1020992	La Colina & Hunter	05/03/13	649,885	649,885	-	457,843	192,042	06/01/16	70%	90%	On-hold.
	Subtotal			15,917,741	283,959	6,703,449	9,214,292				
Substation Transformer Addition											
1619571	Plaza Substation	10/24/16	460,000	460,000	24,742	453,530	6,470	11/30/17	99%	95%	Completed, pending as-builts.
1514752	Mobile Substation #3	05/23/16	2,198,993	2,198,993	40,705	1,895,013	303,980	11/02/17	86%	95%	In commissioning phase.
	Subtotal			2,658,993	65,447	2,348,543	310,450				
SCE Condemnation Costs											
1704094	Annexation 95 & 99 areas	10/24/16	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				130,057,095	3,698,870	85,842,879	44,214,216				

Notes:

- (1) This work is part of Project 050009 & included within the \$24,000,000 authorized by PU Board and includes various work orders closed in prior years.
- (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.

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
January 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 (Based on Proj. Est.)		Project Status
					Total as of 01/31/2018	Total as of 01/31/2018			% 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	1,110,000	-	-	1,110,000	09/23/16	0%	2%	Developing business case.
1619634	Operational Data Management System - Water	05/09/16	4,907,000	1,717,500	106,348	1,082,737	634,763	05/09/16	63%	70%	In implementation phase.
	Subtotal			2,827,500	106,348	1,082,737	1,744,763				
Asset Management System											
1424073	Water Asset Management	06/20/14	2,530,400	2,048,689	143,438	2,284,406	(235,717)	01/09/18	112%	100%	Completed, pending closure.
	Subtotal			2,048,689	143,438	2,284,406	(235,717)				
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	06/30/17	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	-	-	530,000	10/01/17	0%	0%	Pending replacement, 03/2018
1806142	Garner C Groundwater Well	11/27/17	361,000	361,000	7,124	7,124	353,876	12/14/17	2%	0%	Pending start date.
1806141	Warren 1 Groundwater Well	11/27/17	346,000	346,000	6,316	6,316	339,684	11/30/17	2%	0%	Project started 1/16/2018
1806140	Gage 66-1 Groundwater Well	11/27/17	381,000	381,000	6,316	6,316	374,684	11/30/17	2%	0%	Pending start date.
1806139	Gage 92-1 Groundwater Well	11/27/17	413,000	413,000	6,266	6,266	406,734	11/30/17	2%	0%	Pending start date.
1801849	Mockingbird Canyon Pump Station	01/08/18	203,000	203,000	22,537	22,537	180,463	01/11/18	11%	0%	Pending start date.
1727627	John W. North Treatment Plant Trains 4,5	07/10/17	368,000	368,000	369,828	367,984	16	01/02/18	100%	100%	Completed, pending closure.
1712678	Flume 3 Groundwater Well	02/13/17	255,672	255,672	(26,166)	110,173	145,499	10/19/17	43%	100%	Completed, pending closure.
1712677	Gage 92-3 Groundwater Well	02/13/17	264,626	264,626	10,586	20,969	243,657	12/28/17	8%	0%	Cooley I replaced Gage 92-3
1712676	Tippecanoe Groundwater Well	02/13/17	301,454	301,454	30,836	226,698	74,756	01/11/18	75%	100%	Completed, pending closure.
1712675	Raub 6 Groundwater Well	02/13/17	297,582	297,582	40,287	96,044	201,538	01/24/18	32%	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	6,476	7,603	329,397	12/27/17	2%	0%	Pending start date.
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
January 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 (Based on Proj. Est.)		Project Status
					Total as of 01/31/2018	Total as of 01/31/2018			% Spent	% Completed	
Subtotal				5,890,622	509,510	2,361,883	3,528,739				
Main Replacements											
1619730	Tenth and Eleventh Street	08/22/16	2,245,000	2,245,000	362,541	2,037,867	207,133	01/11/18	91%	100%	Completed, pending closure.
1602941	Larchwood Place	10/16/15	895,000	865,000	3,967	477,422	387,578	09/07/17	55%	100%	Completed, pending closure.
1515504	Arroyo Drive	11/14/16	2,040,000	2,040,000	247,340	1,831,066	208,934	01/11/18	90%	100%	Completed, pending closure.
1513392	Colorado Ave and Toyon Road	05/22/17	2,978,000	2,978,000	2,254,412	2,443,700	534,300	01/18/18	82%	50%	In construction.
1507007	Jasmine and Columbus	10/03/14	679,000	679,000	-	-	679,000	No Activity	0%	0%	On-hold.
1422097	Indiana Avenue and Mary St.	07/10/17	2,017,000	2,017,000	1,277,810	1,386,206	630,794	01/23/18	69%	50%	In construction.
1415931	California and Monroe	12/12/14	973,500	973,500	-	820,305	153,195	06/01/17	84%	95%	On-hold. In litigation.
1107917	Magnolia Ave and Ramona Dr	04/10/17	2,704,000	2,704,000	1,989,264	2,375,510	328,490	01/18/18	88%	90%	Completed, pending closure.
Subtotal				14,501,500	6,135,333	11,372,076	3,129,424				
Recycled Water Facilities											
1722078	Jackson St - Phase 1 & 2 Water Sites Retrofit	04/24/17	434,730	434,730	38,461	48,424	386,306	01/17/18	11%	10%	In construction.
1623724	Jackson Street - Phase 1B (Utility Potholing/Design)	10/23/17	433,000	433,000	70,637	117,267	315,733	01/11/18	27%	15%	In construction.
1521905	Jackson Street - Phase 1	01/22/16	9,039,000	8,839,000	2,885,058	3,423,365	5,415,635	01/18/18	39%	25%	In construction.
Subtotal				9,706,730	2,994,157	3,589,056	6,117,674				
Street Improvements											
1323318	Magnolia St. Separation / Riverside County	10/04/13	172,000	172,000	-	200,479	(28,479)	07/01/17	117%	100%	Completed, pending closure.
Subtotal				172,000	-	200,479	(28,479)				
System Expansion											
1703061	Crestlawn-Norco	11/14/16	1,339,000	1,339,000	166,249	1,272,470	66,530	01/18/18	95%	100%	Completed, pending closure.
1615173	Water Cust. Development - 58 Magnolia Ctr.	(3)	(3)	237,767	261,959	261,959	(24,192)	01/11/18	110%	90%	Pending pavement completion.
Subtotal				1,576,767	428,209	1,534,429	42,338				
Transmission Mains											
1612632	Utility Pothole Work - Magnolia Ave	01/08/18	484,000	484,000	109,044	129,033	354,967	01/11/18	27%	0%	In construction.
Subtotal				484,000	109,044	129,033	354,967				
Utility Agreement Projects - Caltrans SR-91 HOV											
1112062	UA 21699 - Misc. Utility Relocations	11/18/11	1,555,000	1,555,000	(32,848)	456,670	1,098,330	01/11/18	29%	99%	Completed, pending closure.
1112059	UA 21702 - Ivy St Bridge	08/19/11	1,600,000	1,600,000	(26,413)	1,333,551	266,449	09/27/17	83%	99%	Completed, pending closure.
Subtotal				3,155,000	(59,261)	1,790,221	1,364,779				

Riverside Public Utilities
Open Capital Work Order Summary Report - Water Fund
January 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 (Based on Proj. Est.)		Project Status
					Total as of 01/31/2018	Total as of 01/31/2018			% Spent	% Completed	

Total Water Fund - Open Work Orders

42,487,808	10,389,910	24,926,290	17,561,518
-------------------	-------------------	-------------------	-------------------

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: FEBRUARY 26, 2018

GENERAL MANAGER'S REPORT

ITEM NO: 17

Riverside Public Utilities

Closed Work Order Reports

As of January 30, 2018

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

Major Overhead/Underground Conversions

1604758	7105 Old Frontage Rd/215 Joint Project with SCE	3/9/2016	12/8/2017	\$ 208,182	\$ 190,406	\$ 17,776	8.54%
---------	-------------------------------------------------	----------	-----------	------------	------------	-----------	-------

1) Note on Final Project Cost:

Final project cost were within budget.

2) Impact to Customer Service:

Service interruptions were minimized during construction. New padmounted switches will provide for faster outage restoration and operation.

3) Impact to System Reliability:

Improved system reliability and safety due to new padmounted switches providing faster outage restoration and operation.

Note: 100% Customer Funded Project

Total Electric Fund - Closed Work Orders

<u>\$ 208,182</u>	<u>\$ 190,406</u>	<u>\$ 17,776</u>
-------------------	-------------------	------------------

Riverside Public Utilities
 Closed Capital Work Order Summary Report - Water Fund
 January 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 Water Work Orders over \$200,000 to report for the month of January 2018.							
Total Water Fund - Closed Work Orders				<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	