



RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: OCTOBER 22, 2018

GENERAL MANAGER'S REPORT

ITEM NO:

Riverside Public Utilities

Open Work Orders Greater than \$200,000

As of September 30, 2018

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

Project / Subproject or WO	Project Description	Board Approval Date	Board Approved Estimate ⁽¹⁾	Project Estimate ⁽²⁾	Year to Date Total as of 9/30/2018	Life to Date Total as of 9/30/2018	Available Balance	Last Activity Date	Job Status (Based on Proj. Est.)		Project Status
									% Spent	% Completed	
Open Work Orders/Projects with Budgeted or Actual expenditures > \$200,000											
Advanced Technology											
1619634	Operational Data Management System - Electric	05/09/16	4,907,000	2,474,500	25,931	2,225,496	249,004	08/13/18	90%	70%	In implementation phase.
1707248	Advanced Metering Infrastructure - Electric	06/12/17	3,000,000	790,000	-	-	790,000	09/11/18	0%	2%	Developing business case.
Subtotal				3,264,500	25,931	2,225,496	1,039,004				
RTRP and STP Project											
642975	Riverside Transmission Reliability Project (RTRP)	10/17/14	42,605,521	42,605,521	131,643	28,494,254	14,111,267	09/20/18	67%	15%	In design.
0812940	Sub-Transmission Project (STP) ⁽³⁾	11/06/09	24,000,000	24,000,000	-	18,312,636	5,687,364	05/31/18	76%	99%	Completed, pending as-builts.
Subtotal				66,605,521	131,643	46,806,890	19,798,631				
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 ⁽⁴⁾	07/20/07	500,000	500,000	-	468,292	31,708	03/13/14	94%	95%	In construction.
Subtotal				820,000	-	482,032	337,968				
Neighborhood Streetlight Retrofit											
1523553	Wood Streets Streetlights Phase 2	02/13/17	2,300,000	2,300,000	233	2,114,510	185,490	09/06/18	92%	95%	Completed, pending as-builts.
080022 / 01	Wood Streets Streetlights Phase I ⁽⁵⁾	10/18/13	1,909,600	1,909,600	-	1,792,642	116,958	06/14/18	94%	95%	Completed, pending as-builts.
Subtotal				4,209,600	233	3,907,152	302,448				
Major Transmission Line Projects											
1503115	Freeman-Kaiser-Harvey Lynn	12/18/15	300,000	300,000	-	180,002	119,998	03/27/18	60%	50%	Equipment purchased, pending start date
Subtotal				300,000	-	180,002	119,998				
Cable Replacement											
1409723	Canyon Crest Area Circuit 1215	11/06/15	1,175,000	1,175,000	-	1,032,476	142,524	02/08/18	88%	95%	In Litigation
1319813	Conduit and Cable Replacement for Canyon Crest Area Circuit 1218	04/10/17	967,000	967,000	131	735,364	231,636	09/13/18	76%	100%	Completed, pending closure.
1713398	Canyon Crest Area 1F	01/08/18	739,000	739,000	26,769	646,235	92,765	09/06/18	87%	50%	In construction.
Subtotal				2,881,000	26,900	2,414,075	466,925				
CIS Banner Upgrade											
1104202	CIS Replacement	06/01/12	9,200,000	8,859,000	26,434	8,445,931	413,069	09/10/18	95%	95%	Completed, pending closure.
Subtotal				8,859,000	26,434	8,445,931	413,069				
City-Wide Communciations Network											
1423750	Riverside Substation to Hunter Substation	04/24/17	465,000	465,000	67,395	332,551	132,449	09/06/18	72%	90%	In construction.
1524282	Land Mobile Radio (LMR) system (Electric Portion)	09/26/16	3,000,000	1,650,000	-	1,687,154	(37,154)	07/01/18	102%	95%	Completed, pending closure.
1719921	Magnolia Avenue	04/24/17	2,189,489	2,189,489	25,075	1,459,498	729,991	09/13/18	67%	75%	In construction.
Subtotal				4,304,489	92,470	3,479,203	825,286				
Distribution Automation Reliability											
1309568	Distribution Automation Program	01/18/13	960,000	960,000	-	682,841	277,159	06/30/18	71%	65%	In construction.
Subtotal				960,000	-	682,841	277,159				

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

Project / Subproject or WO	Project Description	Board Approval Date	Board Approved Estimate ⁽¹⁾	Project Estimate ⁽²⁾	Year to Date Total as of 9/30/2018	Life to Date Total as of 9/30/2018	Available Balance	Last Activity Date	Job Status		Project Status
									(Based on Proj. Est.)		
									% Spent	% Completed	

GO 165 Upgrades/Relocations

Various	GO-165 Pole Replacements - Citywide	09/25/17	1,125,000	1,125,000	-	827,556	297,444	Various	74%	100%	Project completed, pending final billing
Various	GO-165 Pole Replacements - Citywide	08/27/18	2,227,000	2,227,000	-	-	2,227,000	Various	0%	0%	Pending start date/notice to proceed
				Subtotal	-	827,556	2,524,444				

Major 4/12Kv Conversions

1319390	Magnolia - Overhead Conversion	09/19/14	1,577,100	1,577,100	49,090	2,018,710	(441,610)	09/13/18	128%	95%	In construction.
1411795	Magnolia - Underground Conversion	04/02/15	2,250,000	2,250,000	833	1,680,032	569,968	09/14/18	75%	95%	In construction.
1503125	Magnolia Substation - Circuit 46	04/17/15	1,833,000	1,833,000	0	2,195,856	(362,856)	08/30/18	120%	100%	Completed, pending closure.
1521820	Plaza Substation - Circuit 452	09/18/15	1,446,000	1,446,000	-	1,267,741	178,259	04/05/18	88%	90%	In construction.
1521822	Plaza Substation - Circuit 456	09/18/15	933,000	933,000	89,480	337,735	595,265	08/15/18	36%	28%	In construction.
1708710	Plaza Substation - Circuit 458	04/09/18	1,170,000	1,170,000	193,880	404,327	765,673	09/07/18	35%	5%	In construction.
1808449	Plaza Substation - Circuit 448	07/09/18	973,000	973,000	1,345	32,588	940,412	07/12/18	3%	3%	Pending start date
1808451	Plaza Substation - Circuit 443	03/29/18	415,000	415,000	69,547	124,470	290,530	09/18/18	30%	20%	In construction.
				Subtotal	404,174	8,061,459	2,535,641				

Major Overhead/Underground Conversions

0913192	Tyler Street Widening	08/07/15	816,000	816,000	-	973,503	(157,503)	12/01/17	119%	95%	Completed, pending as-builts.
				Subtotal	-	973,503	(157,503)				

Major Street Light Projects

1611216	Citywide Streetlight L.E.D. Conversion	07/25/16	1,150,000	1,150,000	-	492,483	657,517	08/29/18	43%	53%	In design.
1722321	Norte Vista Sidwalk Improvements Project	02/12/18	888,000	888,000	132,766	212,785	675,215	09/14/18	24%	15%	In construction.
1725687	Wells-Arlanza Sidewalk Improvements Project	01/08/18	460,000	460,000	157,945	235,191	224,809	09/12/18	51%	65%	In construction.
				Subtotal	290,711	940,459	1,557,541				

SCADA

1024305	Electric SCADA System Upgrades	07/01/11	2,938,307	2,938,307	-	2,737,329	200,978	08/10/16	93%	99%	Completed, pending closure.
				Subtotal	-	2,737,329	200,978				

Substation Bus and Upgrades

1311245	Orangecrest, Riverside, Springs & La Colina	03/21/14	1,925,805	1,925,805	-	1,919,696	6,109	05/31/18	100%	99%	Completed, pending as-builts.
1407577	Metal Gate Replacement	04/09/18	337,699	337,699	175	17,552	320,147	08/23/18	5%	5%	Pending construction
1411145	La Colina Switchgear 3 & 4	03/21/14	534,051	534,051	-	345,983	188,068	06/13/18	65%	90%	On-hold.
1507210	RERC Control Power Improvement	10/23/17	272,000	272,000	332	220,666	51,334	08/23/18	77%	88%	Pending procuring add'l equipment
1601400	Springs, Freeman and Mt. View	07/25/16	5,530,000	5,530,000	40,902	4,491,480	1,038,520	08/20/18	81%	85%	In construction
1603079	Springs & Orangecrest	02/19/16	1,700,000	1,700,000	-	1,274,888	425,112	06/30/18	75%	60%	Pending construction.
1808341	Substation Utility Storage Facility	06/11/18	407,385	407,385	1,664	13,890	393,495	08/09/18	3%	5%	In design
1812830	Nine (9) Substation Battery Chargers Upgrade Proj.	02/12/18	384,000	384,000	36,511	202,733	181,267	09/06/18	53%	50%	In construction.

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

Project / Subproject or WO	Project Description	Board Approval Date	Board Approved Estimate ⁽¹⁾	Project Estimate ⁽²⁾	Year to Date Total as of 9/30/2018	Life to Date Total as of 9/30/2018	Available Balance	Last Activity Date	Job Status (Based on Proj. Est.)		Project Status
									% Spent	% Completed	
1814007	Substation Capacitor Upgrade Project	01/22/18	5,306,000	5,306,000	332,666	982,422	4,323,578	09/18/18	19%	15%	In procurement phase
1816163	Substation Automation Upgrade Project	02/26/18	2,027,679	2,027,679	28,630	703,530	1,324,149	09/06/18	35%	30%	In design
1817274	Vista Substation	02/26/18	836,175	836,175	-	782,757	53,418	04/13/18	94%	15%	In engineering and design phase
1826061	Riverside power plants Arc Flash Mitigatino Proj	06/11/18	497,000	497,000	32	179	496,821	07/12/18	0%	3%	In design
	Subtotal			19,757,794	440,912	10,955,776	8,802,018				
Substation Transformer Addition											
1816638	Freeman Substation & Mt. View Substation	05/14/18	4,202,827	4,202,827	13,386	44,891	4,157,936	09/06/18	1%	1%	In procurement phase.
1822318	Multi Substation Transformer Upgrade/Recondition	06/25/18	3,082,617	3,082,617	-	1,991	3,080,626	05/17/18	0%	1%	Pending signing agreement with contractor
	Subtotal			7,285,444	13,386	46,882	7,238,562				
Total Electric Fund - Open Work Orders				139,448,755	1,452,795	93,166,586	46,282,169				

Notes:

- (1) Board approved estimate is the total approved amount of the work order which can include operating & maintenance costs as well as combined Electric & Water projects.
- (2) Project estimate reflects Electric capital portion only.
- (3) WO 0812940 is part of Project 050009 which was approved by Board for \$24,000,000. Project 050009 includes various sub-work orders closed in prior years.
- (4) Work includes both WO 0704432 & 0704434
- (5) Work includes both WO 809099 & 0809101

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
September 2018

Project / Subproject or WO	Project Description	Board Approval Date	Board Approved Estimate ⁽¹⁾	Project Estimate ⁽²⁾	Year to Date Total as of 09/30/2018	Life to Date Total as of 09/30/2018	Available Balance	Last Activity Date	Job Status (Based on Proj. Est.)		Project Status
									% Spent	% Completed	

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

Advanced Technology

1619634	Operational Data Management System - Water	05/09/16	4,907,000	1,332,500	13,963	1,215,867	116,633	08/13/18	91%	70%	In implementation phase.
1707248	Advanced Metering Infrastructure - Water	06/12/17	3,000,000	460,000	-	-	460,000	06/30/18	0%	2%	Developing business case.
	Subtotal			1,792,500	13,963	1,215,867	576,633				

System Expansion

1615173	Water Cust. Development - 58 Magnolia Ctr.	(3)	(3)	237,767	-	262,912	(25,145)	03/31/18	111%	90%	Pending pavement completion.
1726679	Iowa Ave 12-inch Water Main Extension	09/24/18	353,000	353,000	-	39,540	313,460	08/23/18	11%	0%	Pending Board Approval
1905091	Iowa Ave 12-inch Water Main Extension	09/24/18	269,000	269,000	16,552	16,552	252,448	08/23/18	6%	0%	Pending Board Approval
	Subtotal			859,767	16,552	319,004	540,763				

Transmission Mains

1612632	Magnolia Ave Techite Pipe Replacement Project	07/09/18	7,335,000	7,335,000	219,374	630,238	6,704,762	09/19/18	9%	10%	In construction.
	Subtotal			7,335,000	219,374	630,238	6,704,762				

Aquifer Storage & Recovery System

1202806	Riverside North Aquifer Storage & Recovery	10/07/11	1,800,000	1,800,000	-	447,714	1,352,286	07/01/17	25%	10%	In environmental evaluation phase.
	Subtotal			1,800,000	-	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

1508449	Palmyrita Well	11/07/14	215,000	215,000	-	8,932	206,068	11/16/17	4%	5%	On-hold.
1524282	Land Mobile Radio (LMR) system (Wtr Portion)	09/26/16	3,000,000	1,350,000	-	1,283,051	66,949	07/01/18	95%	95%	Completed,pending commisioning.
1727342	Gage 51-1 Groundwater Well	11/27/17	337,000	337,000	203,063	246,172	90,828	08/23/18	73%	45%	In construction.
1727999	Pressure Reducing Station Replacement	07/09/18	599,000	599,000	861	18,823	580,177	09/06/18	3%	0%	Pending start date.
1806139	Gage 92-1 Groundwater Well	11/27/17	413,000	413,000	233,174	350,320	62,680	09/13/18	85%	100%	Completed, pending closure.
1806140	Gage 66-1 Groundwater Well	11/27/17	381,000	381,000	-	297,984	83,016	06/30/18	78%	100%	Completed, pending closure.
1806141	Warren 1 Groundwater Well	11/27/17	346,000	346,000	-	263,757	82,243	06/30/18	76%	100%	Completed, pending closure.
1806142	Garner C Groundwater Well	11/27/17	361,000	361,000	-	294,561	66,439	06/30/18	82%	100%	Completed, pending closure.
1827140	Cooley J Groundwater Well	09/24/18	811,000	811,000	2,972	9,736	801,264	09/06/18	1%	0%	Pending Board Approval

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

Project / Subproject or WO	Project Description	Board Approval Date	Board Approved Estimate ⁽¹⁾	Project Estimate ⁽²⁾	Year to Date	Life to Date	Available Balance	Last Activity Date	Job Status		Project Status
					Total as of 09/30/2018	Total as of 09/30/2018			(Based on Proj. Est.)		
									% Spent	% Completed	
1902331	Stiles Groundwater Well	09/24/18	327,000	327,000	3,021	3,021	323,979	07/18/18	1%	0%	Pending Board Approval
1902332	Garner 5 Groundwater Well	09/24/18	355,000	355,000	3,138	3,138	351,862	07/18/18	1%	0%	Pending Board Approval
Subtotal				5,495,000	446,229	2,779,495	2,715,505				
Main Replacements											
1415931	California and Monroe	12/12/14	973,500	973,500	108,240	820,305	153,195	09/19/18	84%	95%	On-hold. In litigation.
1507007	Jasmine and Columbus	10/03/14	679,000	679,000	-	47,267	631,733	05/31/18	7%	0%	On-hold.
1602941	Larchwood Place	10/16/15	895,000	895,000	-	477,602	417,398	03/31/18	53%	100%	Completed, pending closure.
Subtotal				2,547,500	108,240	1,345,174	1,202,326				
Recycled Water Facilities											
1521905	Jackson Street - Phase 1	11/27/17	9,039,000	8,839,000	647,752	8,044,952	794,048	09/18/18	91%	55%	In construction.
1722078	Jackson St - Phase 1 & 2 Water Sites Retrofit	04/24/17	434,370	434,370	12,595	110,947	323,423	09/18/18	26%	18%	In construction.
Subtotal				9,273,370	660,347	8,155,899	1,117,471				
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	06/07/18	31%	99%	Completed, pending closure.
1112059	UA 21702 - Ivy St Bridge	08/19/11	1,600,000	1,600,000	35,371	1,368,922	231,078	08/30/18	86%	99%	Completed, pending closure.
Subtotal				3,155,000	35,371	1,855,858	1,299,142				
Total Water Fund - Open Work Orders				32,583,137	1,500,076	16,883,505	15,699,632				

- NOTE:**
- (1)** Board approved estimate is the total approved amount of the work order which can include operating & maintenance costs as well as combined Electric & Water projects.
 - (2)** Project estimate reflects Water portion only.
 - (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: OCTOBER 22, 2018

GENERAL MANAGER'S REPORT

ITEM NO:

Riverside Public Utilities

Closed Work Order Reports

As of September 30, 2018

Riverside Public Utilities
Closed Capital Work Order Summary Report - Electric Fund
September 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 4k Conversion

1501824	Plaza Substation 4 kV to 12kV conversion Circuit 454	9/18/2015	8/20/2018	\$ 1,349,000	\$ 1,368,173	\$ (19,173)	-1.42%
---------	--	-----------	-----------	--------------	--------------	-------------	--------

1) Note on Final Project Cost:

Final cost of the project included engineering, materials and construction contract crews. The project was slightly over budget due to the addition of minor field work, however, the project cost was within the allowable project contingency.

2) Impact to Customer Service:

The project improves reliability and power quality

3) Impact to System Reliability:

This work is identified as part of the Electric System Master plan and Utility 2.0 and improves system capacity, safety and reliability.

Total Electric Fund - Closed Work Orders

<u>\$ 1,349,000</u>	<u>\$ 1,368,173</u>	<u>\$ (19,173)</u>
---------------------	---------------------	--------------------

Riverside Public Utilities
Closed Capital Work Order Summary Report - Water Fund
September 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							
Facility Rehabilitation							
1712389	Raub 7 Well Groundwater Well Rehabilitation Project	2/13/2017	8/22/2018	\$ 267,288	\$ 238,996	\$ 28,292	10.58%
<div> <div>1) <i>Note on Final Project Cost:</i></div> <div>The project was completed within budget.</div> </div>							
<div> <div>2) <i>Impact to Customer Service:</i></div> <div>The project ensures delivery of uninterrupted water service to the community.</div> </div>							
<div> <div>3) <i>Impact to System Reliability:</i></div> <div>The project restores water system reliability by equipping the well with new and upgraded pump capable of maintaining production of groundwater.</div> </div>							
Total Water Fund - Closed Work Orders				<u><u>\$ 267,288</u></u>	<u><u>\$ 238,996</u></u>	<u><u>\$ 28,292</u></u>	