



RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: JANUARY 28, 2019

GENERAL MANAGER'S REPORT

ITEM NO:

Riverside Public Utilities

Open Work Orders Greater than \$200,000

As of December 31, 2018

Riverside Public Utilities
Open Capital Work Order Summary Report - Electric Fund
December-18

Project / Subproject or WO	Project Description	Board Approval Date	Board Approved Estimate ⁽¹⁾	Project Estimate ⁽²⁾	Year to Date Total as of 12/31/2018	Life to Date Total as of 12/31/2018	Available Balance	Last Activity Date	Job Status		Project Status
									(Based on Proj. Est.)		
									% 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	103,598	2,303,162	171,338	12/12/18	93%	70%	In implementation phase.
1707248	Advanced Metering Infrastructure - Electric	06/12/17	3,000,000	790,000	-	-	790,000	11/29/18	0%	10%	Board approval 1/29/18 for vendor contracts
1911437	Citywide Geographic Information System Tech. Upgrade Project	12/10/18	1,206,521	480,000	-	-	480,000	12/10/18	0%	1%	Board approval 12/10/18
Subtotal				3,744,500	103,598	2,303,162	1,441,338				

RTRP and STP Project

642975	Riverside Transmission Reliability Project (RTRP)	10/17/14	42,605,521	42,605,521	364,106	28,726,717	13,878,804	12/13/18	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	364,106	47,039,353	19,566,168				

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	1,013	2,115,291	184,709	10/18/18	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	1,013	3,907,933	301,667				

Major Transmission Line Projects

1503115	Freeman-Kaiser-Harvey Lynn	12/18/15	300,000	300,000	45,250	225,252	74,748	11/02/18	75%	50%	Equipment purchased, pending start date
Subtotal				300,000	45,250	225,252	74,748				

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	8,991	744,224	222,776	11/15/18	77%	100%	Completed, pending closure.
1713398	Canyon Crest Area 1F	01/08/18	739,000	739,000	59,145	678,610	60,390	12/13/18	92%	50%	In construction.
Subtotal				2,881,000	68,136	2,455,310	425,690				

CIS Banner Upgrade

1104202	CIS Replacement	06/01/12	9,200,000	8,859,000	243,300	8,662,797	196,203	12/19/18	98%	95%	Completed, pending closure.
Subtotal				8,859,000	243,300	8,662,797	196,203				

City-Wide Communciations Network

1423750	Riverside Substation to Hunter Substation	04/24/17	465,000	465,000	153,520	418,676	46,324	11/01/18	90%	95%	Completed, pending closure.
1423748	Freeman Substation to Orangecrest Substation	10/22/18	1,265,000	1,265,000	73,374	86,858	1,178,142	12/13/18	7%	1%	In design phase
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	390,752	1,825,176	364,313	12/13/18	83%	85%	Completed, pending as-builts.
Subtotal				5,569,489	617,646	4,017,864	1,551,625				

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									% Spent	% Completed	
Distribution Automation Reliability											
1309568	Distribution Automation Program	01/18/13	960,000	960,000	228	683,070	276,930	10/01/18	71%	65%	In construction.
	Subtotal			960,000	228	683,070	276,930				
GO 165 Upgrades/Relocations											
Various	GO-165 Pole Replacements - Citywide	09/25/17	1,125,000	1,125,000	-	829,512	295,488	Various	74%	100%	Project completed, pending final billing
Various	GO-165 Pole Replacements - Citywide	08/27/18	2,227,000	2,227,000	-	129,801	2,097,199	Various	6%	0%	Pending start date/notice to proceed
	Subtotal			3,352,000	-	959,313	2,392,687				
Major 4/12Kv Conversions											
1319390	Magnolia - Overhead Conversion	09/19/14	1,577,100	1,577,100	-	2,018,710	(441,610)	09/20/18	128%	95%	In construction.
1411795	Magnolia - Underground Conversion	04/02/15	2,250,000	2,250,000	11,961	1,691,160	558,840	09/20/18	75%	95%	In construction.
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	455,635	703,890	229,110	12/04/18	75%	28%	In construction.
1708710	Plaza Substation - Circuit 458	04/09/18	1,170,000	1,170,000	390,718	601,165	568,835	09/07/18	51%	5%	In construction.
1808449	Plaza Substation - Circuit 448	07/09/18	973,000	973,000	230,662	261,905	711,095	12/13/18	27%	3%	Pending start date
1808451	Plaza Substation - Circuit 443	03/29/18	415,000	415,000	190,596	263,679	151,321	12/10/18	64%	20%	In construction.
	Subtotal			8,764,100	1,279,572	6,808,250	1,955,850				
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			816,000	-	973,503	(157,503)				
Major Street Light Projects											
1611216	Citywide Streetlight L.E.D. Conversion	07/25/16	1,150,000	1,150,000	51,744	544,227	605,773	12/04/18	47%	60%	In design.
1722321	Norte Vista Sidwalk Improvements Project	02/12/18	888,000	888,000	270,288	350,306	537,694	12/13/18	39%	15%	In construction.
1725687	Wells-Arlanza Sidewalk Improvements Project	01/08/18	460,000	460,000	328,107	405,353	54,647	12/13/18	88%	65%	In construction.
	Subtotal			2,498,000	650,139	1,299,886	1,198,114				
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			2,938,307	-	2,737,329	200,978				
Substation Bus and Upgrades											
1407577	Metal Gate Replacement	04/09/18	337,699	337,699	5,143	22,520	315,179	11/29/18	7%	5%	In design
1507210	RERC Control Power Improvement	10/23/17	272,000	272,000	920	221,254	50,746	12/13/18	77%	88%	Pending procuring add'l equipment
1601400	Springs, Freeman and Mt. View	07/25/16	5,530,000	5,530,000	243,927	4,694,505	835,495	12/12/18	85%	85%	In construction
1603079	Springs & Orangecrest Equip. Replacement Proj.	02/19/16	1,700,000	1,700,000	99,595	1,374,483	325,517	12/13/18	81%	60%	Construction in progress
1808341	Substation Utility Storage Facility	06/11/18	407,385	407,385	39,588	51,814	355,571	10/17/18	13%	5%	In design

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									% Spent	% Completed	
1812830	Nine (9) Substation Battery Chargers Upgrade Proj.	02/12/18	384,000	384,000	168,637	334,859	49,141	12/13/18	87%	55%	Construction completed - pending asbuilts.
1814007	Substation Capacitor Upgrade Project	01/22/18	5,306,000	5,306,000	1,180,860	1,830,616	3,475,384	12/13/18	35%	15%	Completed construction of 2 capacitors
1816163	Substation Automation Upgrade Project	02/26/18	2,027,679	2,027,679	145,081	819,088	1,208,591	12/13/18	40%	30%	9 substations are in design - Unversity Design Completed,Casa Construction is complete
1817274	Vista Substation	02/26/18	836,175	836,175	-	782,757	53,418	04/13/18	94%	15%	Construction is completed. In the process of closing the wo.
1822052	Harvey Lynn Substation Site Expansion	10/22/18	2,100,000	2,100,000	187,313	232,698	1,867,302	12/13/18	11%	10%	PO's will be issues next month to contractors.
1826061	Riverside power plants Arc Flash Mitigatino	06/11/18	497,000	497,000	2,398	2,545	494,455	12/13/18	1%	3%	In design
1826998	Multi-Substation Circuit Breaker Remote Racking Project	11/26/18	619,000	619,000	5,983	14,399	604,601	11/01/18	2%	2%	Board approved. In the process of issuing a PO.
Subtotal				20,016,938	2,079,445	10,381,538	9,635,400				
Substation Transformer Addition											
1816638	Freeman Substation & Mt. View Substation	05/14/18	4,202,827	4,202,827	92,359	123,864	4,078,963	12/13/18	3%	1%	In procurement phase.
1822318	Multi Substation Transformer Upgrade/ Recondition	06/25/18	3,082,617	3,082,617	37,715	39,706	3,042,911	12/13/18	1%	1%	Pending signing agreement with contractor
1810532	Freeman Switchgear and Transformer Upgrade	11/05/18	5,463,000	5,463,000	4,183	51,931	5,411,069	10/04/18	1%	1%	Board approved. Completed 80% of phase 1 design
Subtotal				12,748,444	134,257	215,501	12,532,943				
Total Electric Fund - Open Work Orders				145,082,899	5,586,690	93,152,093	51,930,806				

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
December-18

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					Total as of 12/31/2018	Total as of 12/31/2018			% 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	55,783	1,257,687	74,813	12/12/18	94%	70%	In implementation phase.
1707248	Advanced Metering Infrastructure - Water	06/12/17	3,000,000	460,000	-	-	460,000	11/29/18	0%	2%	Developing business case.
	Subtotal			1,792,500	55,783	1,257,687	534,813				
System Expansion											
1615173	Water Cust. Development - 58 Magnolia Ctr.	(3)	(3)	237,767	-	262,912	(25,145)	03/31/18	111%	90%	Completed, pending as-builts/mapping
1726679	Iowa Ave 12-inch Water Main Extension	09/24/18	353,000	353,000	212,471	255,846	97,154	12/13/18	72%	0%	Pending start date
1905091	Iowa Ave 12-inch Water Main Extension	09/24/18	269,000	269,000	69,565	69,565	199,435	08/23/18	26%	0%	Pending start date
	Subtotal			859,767	282,036	588,323	271,444				
Transmission Mains											
1612632	Magnolia Ave Techite Pipe Replacement Project	07/09/18	7,335,000	7,335,000	3,074,393	3,476,332	3,858,668	12/13/18	47%	10%	In construction.
1903811	Iowa Avenue Transmission Main Replacement	10/22/18	2,140,000	2,140,000	56,342	56,342	2,083,658	08/16/18	3%	0%	Pending start date
	Subtotal			9,475,000	3,130,735	3,532,674	5,942,326				
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%	Environmental phase led by SBVWD
	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	06/30/17	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.
1727999	Pressure Reducing Station Replacement	07/09/18	599,000	599,000	2,576	20,537	578,463	11/29/18	3%	0%	Pending start date.
1827140	Cooley J Groundwater Well	09/24/18	811,000	811,000	19,868	26,269	784,731	12/13/18	3%	0%	Construction starts 11/15/18

Riverside Public Utilities
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December-18

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 12/31/2018	Total as of 12/31/2018			(Based on Proj. Est.)		
									% Spent	% Completed	
1902331	Stiles Groundwater Well	09/24/18	327,000	327,000	30,258	30,258	296,742	07/18/18	9%	0%	Construction starts 11/15/18
1902332	Garner 5 Groundwater Well	09/24/18	355,000	355,000	31,880	31,880	323,120	07/18/18	9%	0%	Construction starts 11/15/18
Subtotal				3,657,000	84,581	1,400,927	2,256,073				
Main Replacements											
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				1,574,000	-	524,869	1,049,131				
Recycled Water Facilities											
1521905	Jackson Street - Phase 1	11/27/17	9,039,000	8,839,000	1,126,660	8,522,288	316,712	12/13/18	96%	55%	In construction.
1722078	Jackson St - Phase 1 & 2 Water Sites Retrofit	04/24/17	434,370	434,370	51,596	149,378	284,992	12/13/18	34%	18%	In construction.
Subtotal				9,273,370	1,178,257	8,671,666	601,704				
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	8,180	1,377,103	222,897	10/04/18	86%	99%	Completed, pending closure.
Subtotal				3,155,000	8,180	1,864,039	1,290,961				
Total Water Fund - Open Work Orders				31,911,637	4,739,573	18,422,155	13,489,482				

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: JANUARY 28, 2019

GENERAL MANAGER'S REPORT

ITEM NO:

Riverside Public Utilities

Closed Work Order Reports

As of December 31, 2018

Riverside Public Utilities
Closed Capital Work Order Summary Report - Electric Fund
December-18

Project / Subproject or WO	Project Description	Start Date	End Date	Board Approved Estimate	Final Project Cost	Variance	% Variance
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CLOSED Capital Work Orders with Budget or Actual Expenditures > \$200,000

Substation Bus and Upgrades

1311245	Orangecrest, Riverside, Springs & La Colina	3/21/2014	11/2/2018	\$ 1,925,505	\$ 1,919,696	\$ 5,809	0.30%
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<p><i>1) Note on Final Project Cost:</i></p> <p>Project was completed successfully.</p>
<p><i>2) Impact to Customer Service:</i></p> <p>Replacement of the old equipment has reduced the potential of equipment failure and loss of power to customers.</p>
<p><i>3) Impact to System Reliability:</i></p> <p>The system reliability has been improved as new equipment is more dependable and requires less maintenance. This translates into less potential outages and improved cost savings.</p>

1411145	La Colina Switchgear 3 & 4	3/21/2014	11/2/2018	\$ 534,051	\$ 345,983	\$ 188,068	35.22%
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<p><i>1) Note on Final Project Cost:</i></p> <p>Project was completed successfully. The original scope of work was reduced to complete it as a separate project due to priorities.</p>
<p><i>2) Impact to Customer Service:</i></p> <p>Replacement of the old equipment has reduced the potential of equipment failure and loss of power to customers.</p>
<p><i>3) Impact to System Reliability:</i></p> <p>The system reliability has been improved as new equipment is more dependable and requires less maintenance. This translates into less potential outages and improved cost savings.</p>

Total Electric Fund - Closed Work Orders

<u>\$ 2,459,556</u>	<u>\$ 2,265,679</u>	<u>\$ 193,877</u>
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December-18

Project / Subproject or WO	Project Description	Start Date	End Date	Board Approved Estimate	Final Project Cost	Variance	% Variance
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CLOSED Capital Work Orders with Budget or Actual Expenditures > \$200,000

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

Total Water Fund - Closed Work Orders

\$ -	\$ -	\$ -
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