

RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: MARCH 25, 2019 GENERAL MANAGER'S REPORT ITEM NO:

Riverside Public Utilities

Open Work Orders Greater than \$200,000

As of February 28, 2019

Riverside Public Utilities Open Capital Work Order Summary Report - Electric Fund February-19

_					Year to Date	Life to Date			Jol	b Status	
Project / Subproject	Project Description	Board	Board		Total	Total	Available	Last	(Based	on Proj. Est.)	Project Status
or WO		Approval Date	Approved Estimate ⁽¹⁾	Project Estimate ⁽²⁾	as of 2/28/2019	as of 2/28/2019	Balance	Activity Date	% Spent	% Completed	
		Buto	Lotinate	Lotimate	2/20/2010	2/20/2010		Duto			
Open Work O	rders/Projects with Budgeted or Actual expenditures > \$20	00,000									
OVERHEAD)										
Various	GO-165 Pole Replacements - Citywide	09/25/17	1,125,000	1,125,000	-	833,992	291,008	Various	74%	100%	Project completed, pending final billing
Various	GO-165 Pole Replacements - Citywide	08/27/18	2,227,000	2,227,000	-	135,662	2,091,338	Various	6%	0%	Pending start date/notice to proceed
1523553	Wood Streets Streetlights Phase 2	02/13/17	2,300,000	2,300,000	8,246	2,122,524	177,476	01/31/19	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.
1503112	Plaza substation - Circuit 450	01/28/19	2,174,000	2,174,000	34,318	283,913	1,890,087	02/07/19	13%	0%	Pending start date (tentative start 2/19/19)
1521820	Plaza Substation - Circuit 452	09/18/15	1,446,000	1,446,000	-	1,267,741	178,259	04/05/18	88%	95%	In construction.
1521822	Plaza Substation - Circuit 456	09/18/15	933,000	933,000	637,539	885,794	47,206	02/12/19	95%	85%	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%	90%	In construction.
1808449	Plaza Substation - Circuit 448	07/09/18	973,000	973,000	343,191	374,434	598,566	02/11/19	38%	40%	In construction.
1808451	Plaza Substation - Circuit 443	03/29/18	415,000	415,000	190,596	285,545	129,455	02/07/19	69%	65%	In construction.
	Subtotal of OVERHEAD		-	14,672,600	1,604,609	8,583,411	6,089,189				
UNDERGR	DUND										
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
1505212	Canyon Crest Area 1F	01/28/19	1,430,000	1,430,000	78	198,678	1,231,322	02/07/19	14%	0%	Pending start date (tentative start 2/19/19)
1713398	Canyon Crest Area 1F	01/08/18	739,000	739,000	122,979	742,444	(3,444)	01/24/19	100%	100%	Completed, pending As- Built
	Subtotal of UNDERGROUND		-	3,344,000	123,057	1,973,598	1,370,402				
SUBSTATIO	N										
1407577	Metal Gate Replacement	04/09/18	337,699	337,699	8,601	25,978	311,721	02/07/19	8%	5%	In design
1507210	RERC Control Power Improvement	10/23/17	272,000	272,000	44,691	265,024	6,976	01/17/19	97%	88%	Pending procuring add'l equipment
1601400	Springs, Freeman and Mt. View	07/25/16	5,530,000	5,530,000	249,194	4,699,772	830,228	01/24/19	85%	85%	In construction
1603079	Springs & Orangecrest Equip. Replacement Proj.	02/19/16	1,700,000	1,700,000	178,238	1,453,126	246,874	12/27/18	85%	60%	In construction
1808341	Substation Utility Storage Facility	06/11/18	407,385	407,385	66,329	78,555	328,830	01/28/19	19%	5%	In design
1812830	Nine (9) Substation Battery Chargers Upgrade Proj.	02/12/18	384,000	384,000	192,305	358,526	25,474	02/07/19	93%	55%	Completed, pending as-builts.
1814007	Substation Capacitor Upgrade Project	01/22/18	5,306,000	5,306,000	1,979,714	2,629,470	2,676,530	02/07/19	50%	15%	Completed construction of 2 capacitors
1816163	Substation Automation Upgrade Project	02/26/18	2,027,679	2,027,679	206,137	881,037	1,146,642	02/07/19	43%	30%	9 substations are in design - Unversity Design Completed,Casa Construction is complete

Riverside Public Utilities Open Capital Work Order Summary Report - Electric Fund February-19

					Year to Date	Life to Date			Job Status		
Project / Subproject	Project Description	Board	Board		Total	Total	Available	Last	(Based	on Proj. Est.)	Project Status
or WO		Approval Date	Approved Estimate ⁽¹⁾	Project Estimate ⁽²⁾	as of 2/28/2019	as of 2/28/2019	Balance	Activity Date	% Spent	% Completed	
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	436,079	481,464	1,618,536	02/14/19	23%	10%	PO's will be issues next month to contractors.
1826061	Riverside power plants Arc Flash Mitigatino	06/11/18	497,000	497,000	11,434	11,581	485,419	02/07/19	2%	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.
1826767	Hunter Substation Replacement Project	01/14/19	2,000,000	2,000,000	32,211	49,072	1,950,928	08/15/18	2%	1%	Board approved
1816638	Freeman Substation & Mt. View Substation	05/14/18	4,202,827	4,202,827	344,443	375,947	3,826,880	02/12/19	9%	1%	In procurement phase.
1822318	Multi Substation Transformer Upgrade/ Recondition	06/25/18	3,082,617	3,082,617	218,347	220,338	2,862,279	02/07/19	7%	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 of SUBSTATION		-	34,765,382	3,977,889	12,378,977	22,386,405				
RECURRIN	G/OBLIGATION TO SERVE										
0913192	Tyler Street Widening	08/07/15	816,000	816,000	-	973,503	(157,503)	12/01/17	119%	95%	Completed, pending as-builts.
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.
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.
1309568	Distribution Automation Program	01/18/13	960,000	960,000	228	683,070	276,930	10/01/18	71%	65%	In construction.
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	133,389	146,872	1,118,128	02/07/19	12%	1%	In design phase
1503115	Freeman-Kaiser-Harvey Lynn	12/18/15	300,000	300,000	46,520	226,521	73,479	12/27/18	76%	50%	Drilling contractor meeting w/crews, pending start date
1518525	Jurupa Avenue - New Tract 28987	11/06/15	320,000	320,000	-	13,740	306,260	06/01/16	4%	0%	On-hold.
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.
1611216	Citywide Streetlight L.E.D. Conversion	07/25/16	1,150,000	1,150,000	52,572	545,055	604,945	12/04/18	47%	60%	In design.
1709454	12 kV Electrical Feeders for the California Air Resources Board Project	01/14/19	757,000	757,000	70,975	141,207	615,793	01/10/19	19%	1%	Design completed, In construction
1719921	Magnolia Avenue	04/24/17	2,189,489	2,189,489	411,308	1,845,731	343,758	01/24/19	84%	85%	Completed, pending as-builts.
1722321	Norte Vista Sidwalk Improvements Project	02/12/18	888,000	888,000	394,371	474,390	413,610	02/07/19	53%	15%	In construction.
1725687	Wells-Arlanza Sidewalk Improvements Project	01/08/18	460,000	460,000	341,631	418,876	41,124	02/14/19	91%	65%	In construction.
	Subtotal of RECURRING/OBLIGATION TO SERV	/E	-	14,658,796	1,604,513	10,780,416	3,878,380				

Riverside Public Utilities Open Capital Work Order Summary Report - Electric Fund February-19

					Year to Date	Life to Date			Job Status			
Project / Subproject	Project Description	Board	Board		Total	Total	Available	Last	(Based on Proj. Est.) Project St		Project Status	
or WO	· · · · · · · · · · · · · · · · · · ·	Approval Date	Approved Estimate ⁽¹⁾	Project Estimate ⁽²⁾	as of 2/28/2019	as of 2/28/2019	Balance	Activity Date	% Spent	% Completed		
System Aut	comation											
1619634	Operational Data Management System - Electric	06/12/17	4,907,000	2,474,500	139,017	2,338,582	135,918	01/22/19	95%	70%	In implementation phase.	
1707248	Advanced Metering Infrastructure - Electric	06/12/17	3,000,000	790,000	-	-	790,000	02/07/19	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 of SYSTEM AUTOMATION		-	3,744,500	139,017	2,338,582	1,405,918					
OTHER PRO	DJECT											
1104202	CIS Replacement	06/01/12	9,200,000	8,859,000	252,489	8,671,986	187,014	01/31/19	98%	95%	Completed, pending closure.	
	Subtotal of OTHER PROJECT		-	8,859,000	252,489	8,671,986	187,014					
RTRP												
642975	Riverside Transmission Reliability Project (RTRP)	10/17/14	42,605,521	42,605,521	750,053	29,112,663	13,492,858	02/07/19	68%	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 of RTRP		-	66,605,521	750,053	47,425,299	19,180,222					
GRAND TO	TAL ELECTRIC FUND - Open Work Orders		=	146,649,799	8,451,626	92,152,269	54,497,530					

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 February-19

					Year to Date	Life to Date			Job Status (Based on Proj. Est.)			
Project / Subproject	Project Description	Board	Board		Total	Total		Last			Project Status	
or WO		Approval	Approved	Project Estimate ⁽²⁾	as of	as of	Available	Activity	%	% Commissional		
		Date	Estimate ⁽¹⁾	Estimate	02/28/2019	02/28/2019	Balance	Date	Spent	Completed		
Open Work O	open Work Orders/Projects with Budgeted or Actual expenditures > \$200,000											
DISTRIBUT	ION PIPELINE											
1507007	Jasmine and Columbus	10/03/14	679,000	679,000	5,447	52,714	626,286	02/13/19	8%	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.	
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	lowa Ave 12-inch Water Main Extension	09/24/18	353,000	353,000	256,967	301,213	51,787	01/24/19	85%	90%	Final grade not set. FF still need to set final domestic services and vaults, after Public Works final grading. Blow off hydrants and air valve need final placement once final grade complete.	
1905091	Iowa Ave 12-inch Water Main Extension	09/24/18	269,000	269,000	74,724	74,724	194,276	08/23/18	28%	90%	Waiting for UCR for right-of-way approval.	
	Subtotal of DISTRIBUTION PIPELINE		-	2,433,767	337,139	1,169,165	1,264,602					
DISTRIBUT	ION FACILITIES											
1508449	Palmyrita Well	11/07/14	215,000	215,000	-	8,932	206,068	11/16/17	4%	5%	Completed, pending closure.	
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	9,818	27,779	571,221	02/07/19	5%	25%	In construction.	
1827140	Cooley J Groundwater Well	09/24/18	811,000	811,000	45,985	52,749	758,251	02/07/19	7%	16%	In construction.	
1902331	Stiles Groundwater Well	09/24/18	327,000	327,000	117,894	117,894	209,106	07/18/18	36%	70%	In construction.	
1902332	Garner 5 Groundwater Well	09/24/18	355,000	355,000	225,561	225,561	129,439	07/18/18	64%	99%	In construction.	
	Subtotal of DISTRIBUTION FACILITIES		-	3,657,000	399,259	1,715,966	1,941,034					
TRANSMIS	SION PIPELINE											
1612632	Magnolia Ave Techite Pipe Replacement Project	07/09/18	7,335,000	7,335,000	4,293,759	4,704,623	2,630,377	02/08/19	64%	81%	In construction.	
1903811	Iowa Avenue Transmission Main Replacement	10/22/18	2,140,000	2,140,000	112,776	112,776	2,027,224	08/16/18	5%	45%	Pending start date	
	Subtotal of TRANSMISSION PIPELINE		-	9,475,000	4,406,535	4,817,399	4,657,601					

Riverside Public Utilities Open Capital Work Order Summary Report - Water Fund February-19

Project /					Year to Date	Life to Date			Job Status			
Subproject	Project Description	Board Approval	Board Approved	Project	Total as of	Total as of	Available	Last Activity	(Based o	n Proj. Est.) %	Project Status	
or WO		Date	Estimate ⁽¹⁾	Estimate ⁽²⁾	02/28/2019	02/28/2019	Balance	Date	Spent	⁷⁰ Completed		
	-		-									
WATER SU	IPPLY											
1521905	Jackson Street - Phase 1	11/27/17	9,039,000	8,839,000	1,167,001	8,564,201	274,799	01/24/19	97%	100%	Completed, pending closure.	
1722078	Jackson St - Phase 1 & 2 Water Sites Retrofit	04/24/17	434,370	434,370	65,774	164,126	270,244	02/07/19	38% 34%		In design	
	Subtotal of WATER SUPPLY		-	9,273,370	1,232,775	8,728,327	545,043					
SYSTEM A	UTOMATION											
1619634	Operational Data Management System - Water	05/09/16	4,907,000	1,332,500	74,856	1,276,759	55,741	01/22/19	96%	70%	In implementation phase.	
1707248	Advanced Metering Infrastructure - Water	06/12/17	3,000,000	460,000	-	-	460,000	02/07/19	0%	2%	Developing business case.	
	Subtotal of SYSTEM AUTOMATION		-	1,792,500	74,856	1,276,759	515,741					
OTHERS												
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	
1504840	Santa Ana River Habitat Conservation	09/05/14	325,000	325,000	-	134,256	190,744	06/30/17	41%	50%	In design	
	Subtotal of OTHERS		-	2,125,000	-	581,970	1,543,030					
GRAND TOTAL OF WATER FUND - Open Work Orders				28,756,637	6,450,562	18,289,586	10,467,051					

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: MARCH 25, 2019 GENERAL MANAGER'S REPORT ITEM NO:

Riverside Public Utilities

Closed Work Order Reports

As of February 28, 2019

Riverside Public Utilities Closed Capital Work Order Summary Report - Electric Fund February 19

		February-1	9									
Project /				Board	Final							
Subproject				Approved	Project							
or WO	Project Description	Start Date	End Date	Estimate	Cost	Variance	% Variance					
CLOSED Ca	pital Work Orders with Budget or Actual Expenditur	es > \$200,000										
	Overhead											
1319390	Magnolia - Overhead Conversion	9/19/2014	1/15/2019	\$ 1,577,100	\$ 2,178,195	\$ (601,095)	-38.11%					
	1) Note on Final Project Cost:											
	The Project was over budget due to field additions where potential system improvements were identified as well as work that had to be completed at night or during the weekend in order to lessen the impact to the customers on the circuit.											
	2) Impact to Customer Service:											
	The replacement of aging, and obsolete overhead facilities in the vicinity of Magnolia Substation facilitated the decommissioning of Magnolia Substation as well as the transfer of customers from a 4kV system to a more modern, reliable and improved 12kV system.											
	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.											
					acity, baroty and h	endenty.						

Total Electric Fund - Closed Work Orders

<u>\$ 1,577,100</u> <u>\$ 2,178,195</u> <u>\$ (601,095)</u>

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

February-19 Project / Board Final Subproject Approved Project or WO Start Date End Date **Project Description** Estimate Cost Variance % Variance CLOSED Capital Work Orders with Budget or Actual expenditures > \$200,000 **GRANTS AND CAPITAL PROJECTS** UA 21702 - Ivy St Bridge 82.77% 1112059 11/19/2010 11/16/2018 \$ 1,600,000 275,719 \$1,324,281 \$ 1) Note on Final Project Cost: The project was completed within the estimated cost. 2) Impact to Customer Service: The project enhanced water distribution to the surrounding neighborhood. 3) Impact to System Reliability: The project improved reliability of the water system by proving an upgraded and upsized water distribution main. 1112062 UA 21699 - Misc. Utility Relocations 11/19/2010 6/7/2018 \$ 1,555,000 289,749 81.37% \$ \$1,265,251 1) Note on Final Project Cost: The project was completed within the estimated cost. 2) Impact to Customer Service: The project improved several segments of the system to ensure a reliable delivery of water to the customers.

3) Impact to System Reliability:

The project improved reliability of the water supply.

Total Water Fund - Closed Work Orders

