

**ACTION MINUTES OF REGULAR MEETING
BOARD OF PUBLIC UTILITIES COMMISSIONERS
CITY OF TULARE**

January 21, 2016

A regular meeting of the Board of Public Utilities Commissioners, City of Tulare, was held on Thursday, January 21, 2016, at 3:00 p.m., in the Tulare Public Library & Council Chambers.

BOARD MEMBERS PRESENT: Lee Brehm, Philip Smith, Edward Henry, Dick Johnson

BOARD MEMBER ABSENT: Mark Watte

STAFF PRESENT: Don Dorman, Joe Carlini, Michael Miller, Trisha Whitfield, Rob Hunt, Traci Myers, Frank Rodriguez, Tim Doyle, Nick Bartsch, Benjamin Siegal, Josh Rogers, Willard Epps, Cameron Long, Shonna Oneal

I. CALL TO ORDER REGULAR SESSION:

President Brehm called the regular session to order at 3:00 p.m.

II. PLEDGE OF ALLEGIANCE:

President Brehm led the Pledge of Allegiance.

III. CITIZEN'S REQUEST OR COMMENTS: *This is the time for citizens to comment on items within the jurisdiction of the Board. The Board cannot legally discuss or take official action on citizen comments that are introduced tonight. Each speaker will be allowed **three minutes**, with a maximum time of 10 minutes per item, unless otherwise extended by the Board.*

There were no citizen comments.

IV. COMMUNICATIONS:

No action will be taken on matters listed under communications; informational only. However, the Board may direct staff to schedule issues raised during communications for a future agenda.

There were no communications presented.

V. CONSENT CALENDAR:

It was moved by Vice President Smith, seconded by Board Member Johnson and carried 4 to 0 (Board Member Watte absent) that the items on the consent calendar be approved as presented with the exception of items 3,4,5,6, and 9.

- (1) **Approve minutes of the December 17, 2015 regular/special meeting(s).**
- (2) **Accept November Investment Report.**
- (3) **Accept Financial Status Report.** Board Member Henry pulled this item for clarification regarding the \$160,000 transfer in from General Fund. Field Services Manager Trisha Whitfield explained the transfer is a one-time reimbursement to the Water fund for the TID fees paid over the past five years and that in the future the storm drain will be paying it directly. With no further discussion, it was moved by Board Member Henry, seconded by Vice President Smith and carried 4 to 0 (Board Member Watte absent) to accept the item as presented.
- (4) **Accept Drought Surcharge Report.** Board Member Henry pulled this item for clarification regarding the asterisk notating the well depth measurement was changed to 52 feet and inquired about the significance of the change. Field Services Manager Trisha Whitfield explained the significance of the measurement relates to the amount of additional electrical cost to pump the water up due to the drought. Board Member Henry also pulled this item for clarification regarding the mailing, printing, and advertising costs for the drought surcharge. Field Services Manager explained the City is getting ready to send additional notices with the utility invoices and staff has been placing banners in locations throughout town. Following discussion, it was moved by Board Member Henry, seconded by Board Member Johnson and carried 4 to 0 (Board Member Watte absent) to accept the item as presented.
- (5) **Accept Water Pumping and Sales Report.** Board Member Henry pulled this item for clarification regarding the double digit items that are in low usage months. Public Works Director Joe Carlini and Field Services Manager Trisha Whitfield provided a response thereto. Following discussion, it was moved by Board Member Henry, seconded by Vice President Smith and carried 4 to 0 (Board Member Watte absent) to accept the item as presented.
- (6) **Receive State mandated water conservation report for November 2015.** Board Member Henry pulled the item to inquire about potential fines that could be levied by the State when the reduction numbers are not met. City Manager Don Dorman provided a response thereto. Management Analyst Benjamin Siegal provided an update regarding the current state legislation being refined to extend the state mandated water conservation. Following a brief discussion, it was moved by Board Member Henry, seconded by Vice Present Smith and carried 4 to 0 (Board Member Watte absent) to receive the item as presented.
- (7) **Accept Public Works work performance reports for December 2015.**
- (8) **Accept report on emergency repairs to Well #11 completed by Valley Pump & Dairy Systems.**

- (9) **Adopt Resolution No. 16-01 establishing the Hydrological Enterprise Fund Program.** Board Member Henry pulled this item to inquire about how often reports will be provided to the Board on the Hydrological Enterprise Fund Program. City Manager Don Dorman explained that most of the reporting will be provided during the budget cycle, or at the request of the Board. With no further discussion, it was moved by Board Member Henry, seconded by Board Member Johnson and carried to 4 to 0 (Board Member Watte absent) to approve the item as presented.

VI. PRESENTATION

- (1) **Presentation of plaque to Valley Pump & Dairy System for emergency repairs performed on the City's water system.** Water & Wastewater Utility Collections Manager Tim Doyle presented a plaque to Bill Wilson and Nick Wilson, owners of Valley Pump & Dairy Systems, in appreciation of the emergency repairs made to the City's water system.

VII. GENERAL BUSINESS:

- (1) **Award the purchase of 1,590 automated refuse cans to Cascade Cart Solutions, using NJPA Contract No. 020613-CEI in the amount of \$83,683.35, which includes tax and shipping.** Solid Waste Manager Frank Rodriguez provided a report for the Board's review and consideration. Following discussion, it was moved by Board Member Johnson, seconded by Vice President Smith and carried 4 to 0 (Board Member Watte absent) to approve the item as presented.
- (2) **Review the findings of a water system analysis of the Oak Creek multi-family development for Developer, Greg Nunley, and authorize new connections to the City water system for 32 multi-family units and landscaping subject to the conditions as presented.** City Engineer Michael Miller provided a report for the Board's review and consideration. Darlene Mata addressed the Board on behalf of Greg Nunley regarding a fourth option for consideration. Ms. Mata advised the Board that Mr. Nunley was willing to trade five single family residence water connection authorizations previously granted for another subdivision in exchange for the Board granting this current request. The Board raised questions regarding the water usage for single family residence versus multi-family units. City Engineer Michael Miller provided a response thereto and clarified that five single family residences would not be enough to offset the request for 32 multi-family units (an equivalency would be 13 single family residences). City Engineer Michael Miller further explained that the developer provided this fourth option to allow previously allocated water connections for his Quail Creek project be allocated to the Oak Creek project because excess water connections exist for the first phase of Quail Creek. Darlene Mata expressed to the Board that although not authorized to release more than five water connection authorizations, she requested the Board approve the amount needed subject to confirmation by additional release of previously 13 authorized single family residence water connections. Following

discussion, it was moved by Board Member Henry, seconded by Board Member Johnson and carried 4 to 0 (Board Member Watte absent) to grant the request for 32 multi-family units water connections specifically conditioned upon the release of 13 single family units from the Quail Creek subdivision project in favor of a grant of entitlement for connection to the Oak Creek project and subject to the other findings and conditions 1, 2 and 4 contained in the staff recommendations.

Vice President Smith inquired about the numbers contained on the Comparator Tool. Staff provided responses thereto. The Board requested that staff include the actual usage on the tool for past months. City Manager Don Dorman advised the Board that staff will inquire about a cost effective way to add the information requested.

- (3) **Review proposed changes to Title 7 Chapters 7.32.060, Outdoor Water Use – Water Conservation Stages, and make recommendations to the City Council with regard to revising the existing Water Conservation Ordinance 14-03, to effect the change described in the revised ordinance as attached.** Public Works Director Joe Carlini provided a report for the Board's review and consideration. The Board raised questions and concerns regarding the proposed revisions to the water ordinance. Staff provided responses thereto. Following discussion, it was moved by Board Member Henry, seconded by Vice President Smith to approve the item as presented, but the motion failed 2 to 2 (Board Member Johnson and President Brehm voting in opposition and Board Member Watte Absent).
- (4) **Review the Solid Waste Roll Off service and consider keeping this service under the purview of the Solid Waste Division.** Solid Waste Manager Frank Rodriguez provided a report for the Board's review and consideration. The Board raised questions and staff provided responses thereto. Vice President Smith emphasized that he was not requesting that employees be laid off, or the City to get rid of equipment needed internally. Following discussion, it was moved by Board Member Johnson, seconded by Board Member Henry and carried 3-1 (Vice President Smith voting in opposition and Board Member Watte absent) to approve the item as presented.
- (5) **Receive and discuss update on the Ten Year Energy Plan.** Public Works Director Joe Carlini introduced Christopher Ott of Hydros Agritech, Inc. Mr. Ott provided a PowerPoint slide presentation highlighting an update on the ten year energy plan. Patrick McLafferty of Hydros Agritech, Inc. also provided a portion of the PowerPoint slide presentation. Following discussion, no action was taken.
- (6) **Receive and discuss the Storm Preparedness Report (Fire, Public Works, Streets).** Division Chief Cameron Long and Water & Wastewater Utility Collections Manager Tim Doyle provided a report for the Board regarding the Storm Preparedness Report. The Board raised questions and staff provided responses thereto. Following discussion, no action was taken.

VIII. ITEMS OF BOARD INTERESTS:

Items of Board interest were discussed among the Board and staff.

IX. ADJOURN REGULAR MEETING:

President Brehm adjourned the regular meeting at 5:01 p.m.

President of the Board of Public Utilities
Commissioners of the City of Tulare

ATTEST:

Secretary of the Board of
Public Utilities Commissioners

**CITY OF TULARE
SUMMARY TREASURER'S REPORT
SUMMARY OF ALL INVESTMENTS
DECEMBER 31, 2015**

AGENDA ITEM Consent 2

TYPE OF INVESTMENT	BOOK	MARKET	CURRENT	BOOK VALUE
	VALUE	VALUE	YIELD	% OF TOTAL
UNRESTRICTED INVESTMENTS - SEE PAGE 2	58,012,832	57,782,487	1.111%	61.69%
RESTRICTED INVESTMENTS - SEE PAGE 4	36,028,590	35,946,555	N/A	38.31%
TOTAL INVESTMENTS	<u>94,041,422</u>	<u>93,729,042</u>	N/A	<u>100.00%</u>

Note: The City's financial statements will report market values, not book values, at June 30 each year.

I certify that this report reflects all City investments and complies with the investment policy of the City of Tulare as approved by City Council. Furthermore, I certify that sufficient investment liquidity and anticipated revenues are available to meet the City's budgeted expenditures for the next six months.

Presented to the City Council on January 15, 2016.

Presented to the Board of Public Utility Commissioners on January 15, 2016.

Respectfully submitted, Darlene J. Thompson, CPA, Finance Director/Treasurer

Darlene J. Thompson 1-15-16
Date

**CITY OF TULARE
SUMMARY TREASURER'S REPORT, CONTINUED
SUMMARY OF UNRESTRICTED INVESTMENTS
DECEMBER 31, 2015**

TYPE OF INVESTMENT	ISSUER OF INVESTMENT	DATES:		INTEREST RATES:		PAR VALUE	BOOK VALUE	MARKET VALUE	UNREALIZED GAIN/(LOSS):		ESTIMATED EARNINGS: ANNUAL	BOOK VALUE % OF U/I~				
		ACQUISITION MATURITY	STATED CURRENT YIELD	THIS MONTH	LAST MONTH				THIS MONTH							
Petty Cash	N/A	N/A	N/A	N/A	None	N/A	6,825	6,825	N/A	N/A	N/A	0.01%				
Checking Account - City	Wells Fargo Bank	N/A	N/A	N/A	None	N/A	832,584	832,584	N/A	N/A	N/A	1.44%				
							Balance per bank is \$1,664,537									
Local Agency Investment Fund (LAIF)	State of California	Various	On Demand	N/A	0.400%	N/A	24,000,000	24,014,272	14,272	11,655	96,000	41.37%				
							* 24,014,272									
Certificate of Deposit	Various (See page 5)	Various	Various	N/A	0.930%	N/A	490,000	489,555	(445)	481	4,533	0.84%				
	Investments in Safekeeping With BNY Western Trust Company						Per BNY WTC									
Sub-Total		N/A	N/A	N/A	0.397%	N/A	25,329,409	25,343,236	13,827	12,136	100,533	43.66%				
	Fixed Income Investments	Various (See page 7)		N/A		N/A	32,683,423	32,439,251	(244,172)	(151,815)	541,437	56.34%				
	Investments in Safekeeping With BNY Western Trust Company						Per BNY WTC									
							57,782,487	57,782,487	(230,345)	(139,679)	641,970	100.00%				
TOTAL UNRESTRICTED INVESTMENTS							1,111%	N/A	N/A	58,012,832	57,782,487	(230,345)	(139,679)	641,970	41,227	100.00%

* LAIF market values are based on the most currently available amortized cost information - September, 2015: 1.000594646 ~ U/I = Unrestricted Investments

CITY OF TULARE
SUMMARY TREASURER'S REPORT, CONTINUED
SUMMARY OF RESTRICTED INVESTMENTS
DECEMBER 31, 2015

TYPE OF INVESTMENT	ISSUER OF INVESTMENT	ACQUISITION DATE	MATURITY DATE	STATED INTEREST RATE	PAR VALUE	BOOK VALUE	MARKET VALUE	BALANCES AS-OF DATE
Bond Funds (All are Managed by U.S. Bank Trust Except LAIF):								
2008 Lease Revenue and Refunding Bonds (Account No. 120887000)								
FA Prime Obl CL D Corp Trust	U.S. Bank Trust	Various	On Demand	Various	N/A	192	192	12-31-15
U S Bk Mmkt	U.S. Bank Trust	Various	On Demand	Various Reserve Fund	N/A	1,164,384	1,164,384	12-31-15
						1,164,576	1,164,576	
2006 Sewer Revenue Bonds (Account No. 108083000)								
FA Tr Obl CL D Corp Trust	U.S. Bank Trust	1-16-07	On Demand	Various	N/A	10	10	12-31-15
2009 Sewer Revenue Bonds (Account No. 133007000)								
U S Bk Mmkt	U.S. Bank Trust	Various	On Demand	Various	N/A	311	311	12-31-15
U S Bk Mmkt	U.S. Bank Trust	Various	On Demand	Various	N/A	1,621	1,621	12-31-15
Ge Funding Cap Mkt Svcs GIC	Ge Funding	08-06-09	08-06-19	Reserve Fund 3.812%	N/A	6,704,760	6,704,760	12-31-15
				Reserve Fund		6,706,692	6,706,692	
2010 Sewer Revenue Bonds (Account No. 145190000)								
U S Bk Mmkt	U.S. Bank Trust	Various	On Demand	Various	N/A	142	142	12-31-15
U S Treasury	U S Treasury	Various	11-12-15 to 11-15-15	Various	N/A	12,920,480	12,838,445	12-31-15
U S Bk Mmkt	U.S. Bank Trust	Various	On Demand	Various Reserve Fund	N/A	875,159	875,159	12-31-15
				Reserve Fund		13,795,781	13,713,746	
2012 Sewer Revenue Refunding Bonds (Account No. 162033000)								
U S Bk Mmkt	U.S. Bank Trust	Various	On Demand	Various	N/A	77,282	77,282	12-31-15
U S Bk Mmkt	U.S. Bank Trust	Various	On Demand	Various	N/A	923,294	923,294	12-31-15
				Reserve Fund		1,000,576	1,000,576	
2013 Sewer Revenue Refunding Bonds (Account No. 203701000)								
U S Bk Mmkt	U.S. Bank Trust	Various	On Demand	Various	N/A	63,416	63,416	12-31-15
Guarantee Invest. Cont.	Bayerische Landesbank	08-01-13	11-15-22	2.310%	N/A	2,745,126	2,745,126	12-31-15
				Reserve Fund		2,808,542	2,808,542	
2015 Sewer Revenue Refunding Bonds (Account No. 261594000)								
U S Bk Mmkt	U.S. Bank Trust	Various	On Demand	Various	N/A	145,144	145,144	12-31-15
U S Bk Mmkt	U.S. Bank Trust	Various	On Demand	Various	N/A	8,051	8,051	12-31-15
Investment Repurchase GIC	Bayerische Landesbank	11-15-15	11-15-25	1.960%	N/A	6,668,131	6,668,131	12-31-15
				Reserve Fund		6,821,326	6,821,326	

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**CITY OF TULARE
SUMMARY TREASURER'S REPORT, CONTINUED
SUMMARY OF RESTRICTED INVESTMENTS
DECEMBER 31, 2015**

BALANCES

TYPE OF INVESTMENT	ISSUER OF INVESTMENT	ACQUISITION DATE	MATURITY DATE	STATED INTEREST RATE	PAR VALUE	BOOK VALUE	MARKET VALUE	AS-OF DATE
Bond Funds (All are Managed by U.S. Bank Trust Except LAIF):								
2010 Redevelopment Tax Allocation Bonds - Series A Tax Exempt (Account No. 141617000)								
U S Bk Mmkt	U.S. Bank Trust	Various	On Demand	Various	N/A	18,485	18,485	12-31-15
U S Bk Mmkt	U.S. Bank Trust	Various	On Demand	Various	N/A	771,388	771,388	12-31-15
				Reserve Fund		789,873	789,873	
2010 Redevelopment Tax Allocation Bonds - Series B Taxable (Account No. 141617010)								
U S Bk Mmkt	U.S. Bank Trust	Various	On Demand	Various	N/A	338	338	12-31-15
U S Bk Mmkt	U.S. Bank Trust	Various	On Demand	Various	N/A	440,361	440,361	12-31-15
				Reserve Fund		440,699	440,699	
2010 Redevelopment Tax Allocation Bonds - Series C Taxable (Account No. 141618000)								
U S Bk Mmkt	U.S. Bank Trust	Various	On Demand	Various	N/A	1,496,085	1,496,085	12-31-15
U S Bk Mmkt	U.S. Bank Trust	Various	On Demand	Various	N/A	980,179	980,179	12-31-15
				Reserve Fund		2,476,264	2,476,264	
TOTAL BOND FUNDS						<u>36,004,339</u>	<u>35,922,304</u>	
Restricted Insurance Deposits Managed by Fiscal Agents:								
Employee Welfare Fund	Various	N/A	N/A	Various	N/A	24,251	24,251	12-31-15
Workers' Comp. Fund	Various	N/A	N/A	Various	N/A	0	0 *	06-30-15
General Insurance Fund	Various	N/A	N/A	Various	N/A	0	0 *	06-30-15
				* NOTE: Reported as information is made available.		<u>24,251</u>	<u>24,251</u>	
TOTAL RESTRICTED INVESTMENTS						<u>36,028,590</u>	<u>35,946,555</u>	
								<i>Book Value % of Total Investments = 38.31%</i>

CITY OF TULARE
SUMMARY TREASURER'S REPORT, CONTINUED
CERTIFICATES OF DEPOSIT
DECEMBER 31, 2015

INSTITUTION	CUSIP NUMBER	INTEREST RATES:		DATES:		BOOK VALUE MARKET VALUE	UNREALIZED GAIN/(LOSS) THIS MONTH LAST MONTH	ESTIMATED EARNING: ANNUAL THIS MONTH	
		STATED	CURRENT YIELD	ACQUISITION	INVESTED				
GE Capital	36160YTT2	1.100%	1.100%	03/01/2013	03/01/2018	245,000 244,437	(563) 241	2,695 229	
American Express	02587DMM7	0.750%	0.750%	03/07/2013	03/07/2016	245,000 245,118	118 240	1,838 156	
TOTAL CERTIFICATES OF DEPOSITS									
All are in safekeeping with BNY Western Trust Company						PerBNY WTC			
						490,000	(445)	4,533	
						489,555	481	385	

CITY OF TULARE
SUMMARY TREASURER'S REPORT, CONTINUED
FIXED INCOME INVESTMENTS
DECEMBER 31, 2015

TYPE OF FIXED INCOME INVESTMENT	CUSIP NUMBER	DATES:		INTEREST RATES:		PAR VALUE	BOOK VALUE		UNREALIZED GAIN/(LOSS):		ESTIMATED
		ACQUISITION	MATURITY	STATED	CURRENT YIELD		MARKET VALUE	THIS MONTH	LAST MONTH	ANNUAL	
U.S. GOVERNMENT AGENCY OBLIGATIONS											
Federal Farm Credit Banks Cons	3133ECTT9	06-27-13	03-01-17	1.000%	1.000%	1,000,000	997,000	1,001,800	4,800	6,060	10,000
Federal Farm Credit Bks Cons	3133ECB45	12-26-12	12-26-17	0.900%	0.900%	1,500,000	1,500,000	1,500,030	30	135	13,500
Federal Farm Credit Bks Cons	3133ECCZ5	01-16-13	01-16-18	0.900%	0.910%	1,000,000	1,000,000	992,920	(7,080)	(5,510)	9,000
Federal Farm Credit Banks	3133ECNY6	05-08-13	05-08-18	0.950%	0.950%	2,000,000	2,000,000	2,000,040	40	200	19,000
Federal Nat'l Mfg Assn	3136G23H8	08-15-14	11-15-18	1.600%	1.600%	1,500,000	1,500,000	1,503,990	3,990	5,205	24,000
Federal Home Ln Banks	3130A5L98	06-30-15	06-30-20	2.000%	1.990%	1,000,000	1,000,000	1,003,020	3,020	4,260	20,000
Federal Home Ln Bks	3130A6KK2	10-08-15	07-08-20	1.700%	1.730%	2,000,000	2,000,000	1,967,640	(32,360)	(23,060)	34,000
Federal Farm Credit Banks	3133EFCB8	09-08-15	09-08-20	1.850%	1.850%	3,185,000	3,185,000	3,193,600	8,600	12,549	58,923
Federal Home Loan Mfg Corp	3134G7VJ7	09-30-15	09-30-20	2.000%	2.000%	2,000,000	2,000,000	2,003,640	3,640	1,420	40,000
Federal Home Ln Bks	3130A6KL0	10-08-15	10-08-20	1.750%	1.780%	2,000,000	2,000,000	1,963,560	(36,440)	(27,140)	35,000

Per BNY WTC

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CITY OF TULARE
SUMMARY TREASURER'S REPORT, CONTINUED
FIXED INCOME INVESTMENTS, CONTINUED
DECEMBER 31, 2015

TYPE OF FIXED INCOME INVESTMENT	CUSIP NUMBER	DATES: ACQUISITION MATURITY	INTEREST RATES: STATED CURRENT YIELD	PAR VALUE	BOOK VALUE MARKET VALUE	UNREALIZED		ESTIMATED EARNINGS: ANNUAL THIS MONTH	BOOK VALUE % OF U/I-
						GAIN/(LOSS): THIS MONTH LAST MONTH	THIS MONTH		
**									
Federal Home Ln Bks					Per BNY WTC				
	3130A6MH7	10-28-15 10-28-20 C	1.720% 1.740%	2,000,000	2,000,000 1,977,280	(22,720) (12,300)		34,400 2,867	
Federal Home Loan Mtg Corp	3134G73K5	10-28-15 10-28-20 C	1.700% 1.730%	1,500,000	1,500,000 1,469,910	(30,090) (23,085)		25,500 2,125	
Federal Home Ln Bks	3130A6N52	10-29-15 10-29-20 C	1.700% 1.730%	1,500,000	1,500,000 1,472,760	(27,240) (19,995)		25,500 2,125	
Federal Home Loan Mtg Corp	3134G7U82	10-29-15 10-29-20 C	1.750% 1.790%	2,500,000	2,500,000 2,448,250	(51,750) (39,925)		43,750 3,646	
Federal Home Loan Mtg Corp	3134G7Z38	10-29-15 10-29-20 C	1.800% 1.800%	1,500,000	1,500,000 1,500,675	675 1,815		27,000 2,250	
Federal Nat'l Mortgage Assoc	3136G2P50	10-29-15 10-29-20 C	1.750% 1.780%	2,000,000	2,000,000 1,961,100	(38,900) (28,840)		35,000 2,917	
Federal Home Loan Mtg Corp	3134G73P4	11-25-15 11-25-20 C	1.800% 1.810%	2,000,000	2,000,000 1,986,600	(13,400) (3,620)		36,000 3,000	
Federal Home Loan Banks	3130A6VY0	12-23-15 12-23-20 C	2.030% 2.040%	2,500,000	2,500,000 2,491,000	(9,000)		50,750 4,229	
Government National Mortgage Association II Pool		01-24-94 09-20-22	8.500% 7.900%	N/A	1,423 1,436	13 16		114 10	
TOTAL FIXED INCOME INVESTMENTS			N/A 1.670%	N/A	32,683,423 32,439,251	(244,172) (151,815)		541,437 32,849	56.34%

All are in safekeeping with BNY Western Trust Company

~ U/I = Unrestricted Investments

**CITY OF TULARE
TREASURER'S EXECUTIVE SUMMARY
DECEMBER 31, 2015**

CHANGES IN BALANCES AND YIELDS:

CATEGORY	BOOK VALUE		CHANGE	AVERAGE STATED YIELD	
	DECEMBER	NOVEMBER		DECEMBER	NOVEMBER
Total Investments	94,041,422	86,512,192	7,529,230	N/A	N/A
	<u>93,729,042</u>	<u>86,375,184</u>	<u>7,353,858</u>		
	(312,380)	(137,008)	(175,372)		
Unrestricted Investments	58,012,832	50,757,492	7,255,340	1.111%	1.123%
	<u>57,782,487</u>	<u>50,617,813</u>	<u>7,164,674</u>		
	(230,345)	(139,679)	(90,666)		
Restricted Investments	36,028,590	35,754,700	273,890	N/A	N/A
	<u>35,946,555</u>	<u>35,757,371</u>	<u>189,184</u>		
	(82,035)	2,671	(84,706)		
Local Agency Investment Fund (LAIF)	24,000,000	19,600,000	4,400,000	0.400%	0.374%
	<u>24,014,272</u>	<u>19,611,655</u>	<u>4,402,617</u>		
	14,272	11,655	2,617		
Certificates of Deposit	490,000	490,000	0	0.930%	0.920%
	<u>489,555</u>	<u>490,481</u>	<u>(926)</u>		
	(445)	481	(926)		
Fixed Income Investments (Total)	32,683,423	30,183,445	2,499,978	1.670%	1.630%
	<u>32,439,251</u>	<u>30,031,630</u>	<u>2,407,621</u>		
	(244,172)	(151,815)	(92,357)		
TRANSACTIONS (BOOK VALUE): *					
CATEGORY	PURCHASES		SALES / CALLS		
Certificates of Deposit					
			0		0
<u>Fixed Income Investments</u>					
Federal Home Loan Banks, 2.03%			2,500,000	Government National Mortgage Assn. Pool	22
			2,500,000		22

Net LAIF transactions are represented by the change in book value balance shown above. Changes in Restricted Investments are not shown.

**CITY OF TULARE, CALIFORNIA
BOARD OF PUBLIC UTILITIES COMMISSIONERS
AGENDA ITEM TRANSMITTAL SHEET**

Submitting Department: Public Works

For Board Meeting of: February 4, 2016

Documents Attached: Ordinance Resolution Staff Report Other None

AGENDA ITEM:

Accept Public Works work performance reports for December 2015 and semi-annual analysis of work performance reports from July 2015 through December 2015.

IS PUBLIC HEARING REQUIRED: Yes No

BACKGROUND/EXPLANATION:

Attached is the 2015 Public Works Summary Dashboard covering the period July through December, as well as the standard December 2015 dashboard. Below is a brief overview analysis of notable results from July through December performance dashboards.

- **Water**

Notable measurements include: 66 leak events occurred between July and December, an average of 11 events per month and the most (17) occurring in October. This required a total of 845 man-hours to service all leaks, an average of 141 man hours per month with the majority of the time used on large leaks. 736 total meters were installed between July and December averaging 2.7 meters per hour over that period. This included all 19 large diameter industrial meters approved by the Board earlier in the year. The most (125) meters were installed in October. There were 1,094 service locates performed between July and December, an average of 179 per month and an average of 41 minutes per service locate. Water personnel wrote a total of 2,491 water waste tickets for the months of July through December, peaking in September with 827 tickets written.

- **Solid Waste**

The Solid Waste metrics reported primarily cover the availability of service vehicles to personnel to carry out the pick-up routes. For the purposes of the dashboards, 'unavailability' is defined as 'whether a truck is down for planned or unplanned maintenance on a day that it would otherwise normally service a route.' 'Availability' then means that a truck is 'fully functional and able to service a route as expected.' July through January, only one truck was reported on the

dashboards was completely unavailable, a surplus roll off truck. Two roll offs are being proposed for replacement this year. There are 21 residential trucks on the dashboard. 10 of those 21 trucks were available 75% of the time or greater. 7 of the 21 trucks were available between 50% - 74.9% of the time and 3 trucks were available less than 50% of the time for that three month period. 4 residential and 2 front end loader trucks will be replaced this year as part of a grant.

There are 8 Commercial trucks on the dashboard. 1 of the 8 commercial trucks were available for greater than 75% of the time, 6 trucks were available between 50% - 74.9% and 1 truck was available less than 50% of the time. 4 sweepers and 1 leaf vac are listed on the dashboard, 3 of the sweepers were available 80% of the time or greater, with only 1 sweeper available less than 75% of the time. The leaf vac is used seasonally from November to January. Finally, of the 5 roll-off trucks, 3 of them are available for 75% of the time or greater, the fourth truck was available 71% of the time, and the fifth truck is out of service and listed for replacement. All percentages include corrective, predictive and preventative maintenance.

- **Sewer/Collections**

The Sewer Collections division performed CCTV on 14,715 linear feet of sewer line, averaging 2,452 linear feet a month at approximately 9.9 hours per 100 linear feet of sewer line. They inspected the most line in July, 9,240 linear feet. They cleaned over 148,856 linear feet, averaging 24,806 linear feet per month at approximately 20 minutes per 100 linear feet. Their most productive month for cleaning was July, with 46,590 linear feet. Collections spent 426 man hours maintaining lift stations from July through December, an average of 71 man hours per month. They also performed 1,260 Service locates over 6 months, an average of 210 per month and approximately 20 minutes per locate. Notably, both Sewer and Storm Drain divisions are operated by the same crew, as such the run up to an anticipated heavy rain season demanded more attention in the Storm Drain system than was spent earlier in the year.

- **Storm Water**

The Storm Water portion of the Sewer Collections division is one influence that affects the performance of the Sewer division, as the same crew must balance the workload of two distinct divisions. This is seen most visibly in the data as preparation became necessary for the Storm Drain system to handle the upcoming winter rainy season. From July through December, storm water CCTV'd 6,733, averaging 1,122 linear feet per month at 2.93 hours per 100 linear feet. Their most productive month for line inspection was December, 3,483 linear feet. 2,770 linear feet of storm drain line were cleaned over that 6 month period, about 461 linear feet per month. The most cleaned in a single month was, 1500 linear feet in December. A total of 481 man hours were spent maintaining lift stations, about 80 man hours per month. 131 drain inlets were cleaned, while 85.5 man hours were spent on storm drain line repair, in addition, 24 basins were cleaned for an average of 4 man hours per basin. This department is in need of

personnel availability at a bare minimum to service the Storm Drain system as necessary.

- **Wastewater Treatment Plant (WWTP)**

The dashboard for the WWTP covers our current compliance requirements, as well as key Title 22 potable water permit requirements and plant maintenance performance. Consistent with previously reported dashboards, the Tulare WWTP has been in compliance with its current permit for the months of July through December. In that period, Biological Organic Demand (BOD) was sampled twice weekly and averaged 30.3 mg/l. Total Suspended Solids (TSS) was sampled five days weekly, and averaged 18.59 mg/l. Note: the current permit is not based on a running average, but a monthly average. We are not to exceed an individual sample read of 80 mg/L or monthly average of 40mg/L for TSS. In early December there was a spike of 156mg/L of TSS related to the change in temperature. Staff has spoken with the State and is not anticipating to receive fines for non-compliance.

A Title 22 water permit requires compliance on five key constituent limits, nitrogen, crypto speridium and giardia viruses, total organic carbon (TOC), and turbidity. Currently staff collects samples on three of these: nitrogen, TOC and turbidity. During the 6 month period, staff reported that nitrogen levels have consistently been under the limit of 10 mg/l, averaging 4.5 mg/l. TOC and turbidity, however, have consistently exceeded the Title 22 permit limits, under 0.5 mg/l for TOC and under 2 NTU for turbidity. Turbidity has averaged 9.4 NTU over June July and August, and began to come down and stabilize in the fall. When the TSS spiked in early December, it resulted in a spike in both TOC and Turbidity. While TOC has returned to September levels and stability, Turbidity has mirrored the TSS readings more closely and is not yet stabilized. Staff is monitoring these outputs closely and making adjustments at the treatment facility. They expect TSS and Turbidity to return to expected levels shortly.

The maintenance of the WWTP, measured through the work order counts and types, show a well-managed, consistent workload. The average time to completion of work orders trends downward gradually, indicating improved efficiency in general terms. Over a 6 month period, the performance of the maintenance department has confirmed the downward trend in each of the work order categories on the dashboard. In general, Preventative and corrective maintenance work orders due are decreasing, as are work orders carried over from the previous week and average time to completion of work orders while work orders closed are steady.

Summary

As time moves on, more data has become available and Public Works is developing a clearer picture of its measurable performance strengths and weaknesses.

December Dashboard

Services	
Distribution System Services	
Replace/Install Water Service	4
Replace/Install Water Service hours	79
Flow Test Fire Hydrant	0
Leak Events	4
Leak Hours	98
Well Maintenance	
Site Maintenance	27
Maintenance Hours	439.5
Finance Dept Services	
Install/Replace Meters Hours	92
Install/Replace Meters	31
Average Meters per hour	2.97
Off/ On Non Payment Hours	165
Off/ On Non Payment	345
Average Shut Off/Ons per hour	2.09
Interdepartmental Services	
Assist other divisions/Miscellaneous	189.5
Special Projects - * See notes	
Hours	17
Data/Reports/Office Services	
Data/Reports/Office Time	35
Contractor Services	
USA Locates #	171
USA Locates Time	137
Average time per Locate (hours)	0.80
Set Fire Hydrant Meter hours	2
Pressure Testing - Contractors	0
Water Samples- Contractors	0
Special Meeting/Inspection-Contractors	31.5
Backflow Device Testing	5
Customer Services	
Water Waste Tickets	0
Water Waste Hours	16.5

**** Parameters currently under review**

Storm Drain Cleaning

City of Tulare

Report : 11-28 to 12-4

Solid Waste Weekly Dashboard

Weekly Route Status:

November	28	30	1	2	3	4
S	M	T	W	TH	F	F
10	9	9	9		9	9
4	4	4	2	4	4	4
1	1	1	1	1	1	1
2	2	2	2	2	2	2
1	2	2	2	2	2	3

Short manpower
Truck not available



Weekly Fleet Condition:

Good	Down	Pm/Ser	Dn+Pm/Ser
1	2	3	4

Year	Planned Replacement	November Residential	November							OUT OF SERVICE	
			28	30	1	2	3	4			
2007	2018/2019	5580									
2008	2018/2019	5581									
2008	2019/2020	5582									
2009		5583									Dedicated Compost Route Truck
2009		5584									
2012		5585									
1995	2015/2016	5589									OUT OF SERVICE
1998	2015/2016	5590									
1998		5591									
1998		5593									
2001		5598									
2002	2015/2016	5000									
2002	2016/2017	5001									
2002	2015/2016	5003									
2006	2018/2019	5009									
2013		5510									
2013		5511									
2013		5512									
2015		5513									
2015		5514									
2015		5515									
Commercial											
Replace											
2015		5568									
2015		5569									
2015		5570									
2007	2018/2019	5571									
2009		5571									
2010		5572									
2002		5599									
2004	2015/2016	5007									
2006	2015/2016	5008									
Sweeper											
Replace											
2014		5536									
2006	2017/2018	5537									
2006	2017/2018	5538									
2009		5539									
2008		5540									
Roll Off											
Replace											
2009		5575									
2008		5576									
1993	2015/2016	5587									
2002	2016/2017	5002									
1991	2015/2016	5577									OUT OF SERVICE

SURPLUS

OUT OF SERVICE

City of Tulare

Report : 12-12 to 12-18

Solid Waste Weekly Dashboard

Weekly Route Status:

December	12	14	15	16	17	18
S	M	T	W	TH	F	S
10 Residential Routes	2	4	10	3	2	4
4/2 Commercial Routes	1	1	1	1	1	1
1 School Compost Route	2	3	3	4	1	1
2/1 Sweeper Routes	3	3	3	1	2	3
1/2 /3 Roll Off Routes						

Short manpower
Truck not available



Weekly Fleet Condition:

Good	Down	Pm/Ser	Dn+Pm/Ser
1	2	3	4

Year	Planned Replacement	December Residential	December							OUT OF SERVICE	
			S	M	T	W	TH	F			
2007	2018/2019	5580									
2007	2018/2019	5581									
2008		5582									
2008	2019/2020	5583									Dedicated Compost Route Truck
2009		5584									
2012		5585									
1995	2015/2016	5589									OUT OF SERVICE
1998	2015/2016	5590									
1998		5591									
1998		5593									
2001		5598									
2002	2015/2016	5000									
2002	2016/2017	5001									
2002	2015/2016	5003									
2006	2018/2019	5009									
2013		5510									
2013		5511									
2013		5512									
2015		5513									
2015		5514									
2015		5515									
Commercial											
Year											
2015	Replace	5568									
2015		5569									
2007	2018/2019	5570									
2009		5571									
2010		5572									
2002		5599									
2004	2015/2016	5007									
2006	2015/2016	5008									
Sweeper											
Year											
2014	Replace	5536									
2006	2017/2018	5537									
2006	2017/2018	5538									
2009		5539									
2008		5540									
Roll Off											
Year											
2009	Replace	5575									
2008		5576									
1993	2015/2016	5587									
2002	2016/2017	5002									
1991	2015/2016	5577									OUT OF SERVICE

SURPLUS

OUT OF SERVICE

Solid Waste Weekly Dashboard

Weekly Fleet Condition:

Weekly Route Status:
 10 Residential Routes
 4/2 Commercial Routes
 1 School Compost Route
 2/1 Sweeper Routes
 1/2 /3 Roll Off Routes

December	26	28	29	30	31	1
	S	M	T	W	TH	F
		9	8	9	9	
		4	4	4	4	
		1	3	2	2	
		1	3	3	2	

Short manpower
 Truck not available



Year	Planned Replacement	December	Weekly Fleet Condition:						
			S	M	T	W	TH	F	
2007	2018/2019	5580							
2007	2018/2019	5581							
2008		5582							
2008	2019/2020	5583							
2009		5584							
2012		5585							
1995	2015/2016	5589							
1998	2015/2016	5590							
1998		5591							
1998		5593							
2001		5598							
2002	2015/2016	5000							
2002	2016/2017	5001							
2002	2015/2016	5003							
2006	2018/2019	5009							
2013		5510							
2013		5511							
2013		5512							
2015		5513							
2015		5514							
2015		5515							
Commercial									
2015		5568							
2015		5569							
2007	2018/2019	5570							
2009		5571							
2010		5572							
2002		5599							
2004	2015/2016	5007							
2006	2015/2016	5008							
Sweeper									
2014		5536							
2006	2017/2018	5537							
2006	2017/2018	5538							
2009		5539							
2008		5540							
Roll Off									
2009		5575							
2008		5576							
1993	2015/2016	5587							
2002	2016/2017	5002							
1991	2015/2016	5577							

Good 1
 Down 2
 Pm/Ser 3
 Dn+Pm/Ser 4

Dedicated Compost Route Truck

OUT OF SERVICE

SURPLUS

OUT OF SERVICE

City of Tulare Monthly Dashboard

Sewer Legend

-> The metric falls within acceptable standards

-> the metric falls outside of acceptable standards

-> There is currently no established standard for this metric

Parameters

Lineal Feet Televised	→ At least 15,000ft/week
Hours per 100 ln ft	→ NA
Lineal Feet Cleaned	→ At least 30,000ft/week
Hours per 100 ln ft	→ NA
Lift Station Maintenance	→ Maintain at least 4 lift stations/week
Lift Station Maintenance (hours)	→ NA
Equipment Inventory & Upkeep	→ NA
Treatment Plant Work Hours	→ NA
Swr Repair	→ NA
Manholes	→ Repair/Maintain at least 3 manholes/week
Hours Per Manhole	→ No more than average of 5 hours/manhole
SSO Events	→ Zero SSO events/week
USA Locates	→ NA
Avg hours per Locate	→ no more than average of 30 minutes per locate
Number of Callouts	→ NA
Callout Avg Response Time	→ NA
Office Work	→ no more than average of 30 hours per month
Meetings	→ NA
Customer Service	→ NA
Interdepartmental Assistance	→ NA


City of Tulare Sewer Division


December Dashboard

Services	Partial	Wk 1	Wk 2	Wk3	Wk4	Partial	MTD
Maintenance Activities							
Lineal Feet Televised							
Hours per 100 In ft							
% of Total Sewer Lines							
Lineal Feet Cleaned		10,150	3,710	900	3,410		18,170
Hours per 100 In ft		0.3	0.9	0.2	0.2		0.4
% of Total Sewer Lines		0.80%	0.29%	0.07%	0.27%		1.44%
Lift Station Maintenance		17.0	17.0	51.0	34.0		119.0
Lift Station Maintenance (hours)		2.0	3.0	29.0	13.5		47.5
Equipment Inventory & Upkeep		7.5	6.0	5.0	2.0		20.5
Treatment Plant Work Hours		3.0			8.0		11.0
Swr Repair					20.0		20.0
Manholes		4.0			2.0		6.0
% of Total Manholes							
Hours Per Manhole		10.3			4.0		8.2
SSO Events			1.0				1.0
Service/Calls	Partial	Wk 1	Wk 2	Wk3	Wk4	Partial	MTD
USA Locates		47.0	39.0	37.0	34.0		157.0
Avg hours per Locate		0.5	0.4	0.3	0.3		0.4
Number of Callouts		2.0		6.0	8.0		16.0
Callout Avg Response Time		1.5		1.3	2.1		1.8
Office Work		9.5	14.5	5.0	3.5		32.5
Meetings		4.5	7.5	1.5	9.0		22.5
Customer Service		2.0					2.0
Interdepartmental Assistance							

City of Tulare Monthly Dashboard Storm Drain Legend

 -> The metric falls within acceptable standards

 -> the metric falls outside of acceptable standards

 -> There is currently no established standard for this metric

Parameters

- Lineal Feet Televised → at least 15,000 ft/week
- Hours per 100 In ft → NA
- Lineal Feet Cleaned → at least 30,000 ft/week
- Hours per 100 In ft → NA
- Lift Station Maintenance → At least 4 Lift Stations maintained/ week
- Lift Station Maintenance (hours) → NA
- Drain Inlets Cleaned → NA
- Avg hours per D.I. → NA
- Storm Drain Repair → NA
- SSO Events → Zero SSO events/week
- Basins Cleaned → NA
- Avg hours per Basin → NA
- Number of Callouts → NA
- Callout Avg Response Time → NA

Note: Performance parameters are currently under review

City of Tulare Storm Water Division

December Dashboard

Services	Partial	Wk 1	Wk 2	Wk3	Wk4	Partial	MTD
		Maintenance Activities					
Lineal Feet Televised		3483.0					3483.0
Hours per 100 In ft		1.6					1.6
% of total Storm System							
Lineal Feet Cleaned			1500.0				1500.0
Hours per 100 In ft			2.7				
% of total Storm System							
Lift Station Maintenance		8.0	12.0	4.0			24.0
Lift Station Maintenance (hours)		12.5	16.0	21.0	3.5		53.0
Drain Inlets Cleaned			2.0	14.0			16.0
% of Total Drain Inlets							
Avg hours per D.I.			1.3	1.1			1.2
Storm Drain Repair		14.0					14.0
SSO Events							
Basins Cleaned			2.0				2.0
Avg hours per Basin			1.3				1.3
Number of Callouts							
Callout Avg Response Time							

City of Tulare Monthly Dashboard

WWTP Legend



-> The metric falls within acceptable standards



-> the metric falls outside of acceptable standards



-> There is currently no established standard for this metric

Water Discharge - under 40mg/liter per day or 80mg/liter month avg for BOD and TSS

Violations - These will be identified along with the date of violation

Parameters

Title 22 Discharge Parameters

** These are conditions for Title 22 permit compliance to be used as a contextual guide for our current permit and plant performance*

1. BOD - Non Detect(ND)
2. TSS- <5mg/l
- 3 Nitrogen - <10mg/l
4. Crypto Virus - Non detect(ND)
5. Giardia- Non detect(ND)
6. TOC- <0.5mg/l
7. Turbidity- <2mg/l

****BOD testing is run twice a week. The first and third week of the month will be Tuesday and Thursday. The second and fourth week will be Monday and Wednesday.**

Abbreviations

- mg/l - milligrams per liter
- ND - Non Detect
- BOD - Biological Oxygen Demand
- TSS- Total Suspended Solids
- TOC - Total Organic Carbon
- WO - Work Order
- PM - Preventative Maintenance
- Cor - Corrective Maintenance

Definitions

- TSS - Total Suspended Solids.**
Particles larger than 2 microns found in the water column.
Generally comprised of inorganic compounds.
- TOC - Total Organic Carbon.**
Total of organic (carbon based) contaminants in the water system.
- Giardia & Cryptosporidiosis (Crypto)**
These are viruses related to fecal contamination. For Title 22 grade effluent, they must be eradicated.

City of Tulare WWTP

Dashboard Month of December

Compliance	Week of	11/30/2015				
WasteWater Discharge	Mon	Tues	Wed	Thurs	Fri	
current permit	compliant					
BOD	Sample #1		Sample #2			
<40mg/l		70		77		
TSS	<40 mg/l	35	30	29	39	13
Non Permit Discharge						
title 22 permit cond						
nitrogen	<10mg/l	2	4.2	4.2	4.5	4.3
Crypto VriL	ND				0	
Giardia	ND				4	
TOC	<0.5mg/l	70	62	46	46	23
Turbidity	<2NTU	30	26	28	20	12
Air Permit		compliant				
Safety						
Safety Topic		completed on 11/30/2015				
Safety Audit		completed on 11/30/2015				
Plant Aesthetics						
Grounds		good. Proteus workers cleaning all weeds and brush				
Equipment		amonia reduction pond taken down for solids				

Notes:

Maintenance	Week of
# WO that are Due	50
# of PM WO Due	20
# Cor WO Due	3
#WO still Due	27
Closed WO	30
Carry over prior wk	0
Avg time to Comp	0.53

City of Tulare WWTP

Dashboard Month of December

Compliance	Week of	12/7/2015				
WasteWater Discharge	Mon	Tues	Wed	Thurs	Fri	
current permit	compliant					
BOD	Sample #1		Sample #2			
	<40mg/l	28		27		
TSS	<40 mg/l	156	26	25	31	55
Non Permit Discharge						
title 22 permit cond						
nitrogen	<10mg/l	3.9	4.2	4.2	4.5	4.3
Crypto Vriu	ND				0	
Giardia	ND				2	
TOC	<0.5mg/l	270	55	54	48	65
Turbidity	<2NTU	150	21	28	28	50
Air Permit	compliant					
Safety						
Safety Topic	completed on 12/7/2015					
Safety Audit	completed on 12/7/2015					
Plant Aesthetics						
Grounds	good. Proteus workers cleaning all weeds and brush					
Equipment	amonia reduction pond taken down for solids removal					

Maintenance	Week of
# WO that are Due	50
# of PM WO Due	20
# Cor WO Due	3
#WO still Due	27
Closed WO	30
Carry over prior wk	0
Avg time to Comp	0.53

Notes: cold temps and pond servicing is causing solids to blow out of system.
Raising level of solids in system and upping return acrtivated sludge

City of Tulare WWTP

Dashboard Month of December

Compliance		Week of	12/14/2015				
WasteWater Discharge	current permit	Mon	Tues	Wed	Thurs	Fri	
compliant							
Sample #1							
BOD	<40mg/l	38	39	48	52	29	
TSS	<40 mg/l	63					
Non Permit Discharge							
title 22 permit cond							
nitrogen	<10mg/l	5.2	5.7	5.5	5.1	5	
Crypto Vriu	ND				0		
Giardia	ND				4		
TOC	<0.5mg/l	75	40	54	85	65	
Turbidity	<2NTU	57	35	43	80	21	
Air Permit		compliant					
Safety							
Safety Topic		completed on 12/14/2015					
Safety Audit		completed on 12/14/2015					
Plant Aesthetics							
Grounds		good. Proteus workers cleaning all weeds and brush					
Equipment		amonia reduction pond taken down for solids removal					

Notes: cold temps and pond servicing is causing solids to blow out of system.
 Raising level of solids in system and upping return acvtivated sludge return.
 adjusted air to carry a higher dissolved oxygen.

Maintenance	Week of
# WO that are Due	70
# of PM WO Due	65
# Cor WO Due	5
#WO still Due	13
Closed WO	45
Carry over prior wk	0
Avg time to Comp	1.23

City of Tulare WWTP

Dashboard Month of December

Compliance	Week of	12/21/2015				
WasteWater Discharge	Mon	Tues	Wed	Thurs	Fri	
current permit	compliant					
BOD	Sample #1		Sample #2			
	<40mg/l	44	63	49	40	39
TSS	<40 mg/l	51	63	49	40	39
Non Permit Discharge						
title 22 permit cond						
nitrogen	<10mg/l	4.8	5.1	5.3	5.3	5
Crypto Vriu	ND				0	
Giardia	ND				4	
TOC	<0.5mg/l	60	52	43	39	35
Turbidity	<2NTU	42	61	45	32	35
Air Permit	compliant					
Safety						
Safety Topic	completed on 12/21/2015					
Safety Audit	completed on 12/21/2015					
Plant Aesthetics						
Grounds	good. Proteus workers cleaning all weeds and brush					
Equipment	amonia reduction pond taken down for solids removal					

Notes: cold temps and pond servicing is causing solids to blow out of system.
 Raising level of solids in system and upping return acvtivated sludge
 adjusted air to carry a higher dissolved oxygen.

Maintenance	Week of
# WO that are Due	72
# of PM WO Due	65
# Cor WO Due	7
#WO still Due	15
Closed WO	57
Carry over prior wk	0
Avg time to Comp	0.36

City of Tulare WWTP

Dashboard Month of December

Compliance		Week of	12/28/2015			
WasteWater Discharge	Mon	Tues	Wed	Thurs	Fri	
current permit	compliant					
	Sample #1		Sample #2			
BOD	<40mg/l	35		61		
TSS	<40 mg/l	40	42	34	32	35
Non Permit Discharge						
title 22 permit cond						
nitrogen	<10mg/l	4.5	4.7	4.6	5.3	5
Crypto Vriu	ND				0	
Giardia	ND				4	
TOC	<0.5mg/l	35	52	43	39	35
Turbidity	<2NTU	42	61	45	32	35
Air Permit	compliant					
Safety						
Safety Topic	completed on 12/28/2015					
Safety Audit	completed on 12/28/2015					
Plant Aesthetics						
Grounds	good. Proteus workers cleaning all weeds and brush					
Equipment	amonia reduction pond taken down for solids removal					

Maintenance	Week of
# WO that are Due	45
# of PM WO Due	40
# Cor WO Due	5
#WO still Due	0
Closed WO	70
Carry over prior wk	0
Avg time to Comp	0.23

- Notes:
- cold temps and pond servicing is causing solids to blow out of system.
 - Raising level of solids in system and upping return acrtivated sludge return.
 - adjusted air to carry a higher dissolved oxygen.

**CITY OF TULARE, CALIFORNIA
BOARD OF PUBLIC UTILITIES COMMISSIONERS
AGENDA ITEM TRANSMITTAL SHEET**

Submitting Department: Public Works – Water Division

For Board Meeting of: February 4, 2016

Documents Attached: Ordinance Resolution Staff Report Other None

AGENDA ITEM:

Receive State mandated water conservation report for December 2015.

IS PUBLIC HEARING REQUIRED: Yes No

BACKGROUND/EXPLANATION:

On April 1, 2015, Governor Brown announced Executive Order #B-29-15 requiring 25% reduction in Urban Potable water consumption statewide. The regulations related to the Governor's executive order have recently been finalized as a set of Emergency Regulations by the State Water Resource Control Board on May 5, 2015. The State of California is requiring the City of Tulare to reduce total potable water production by 32% over 2013 levels on a month to month basis for the duration of the Emergency Drought Regulations, 270 days from June 1, 2015 through February 28, 2016.

In June, City of Tulare achieved 33.6% reduction through residential conservation efforts and the exclusion of commercial agriculture water production. Inclusion of commercial agriculture netted conservation of 28% in June, which is the State's method of calculation. In July, conservation efforts netted 35.4% reduction after excluding commercial agriculture and 25.8% by the states method. The month of August showed a reduction of 32.4% with the commercial agriculture exclusion, and 26.2% when commercial agriculture is included. September conservation efforts diminished from previous months, 24.1% excluding commercial agriculture and 18.5% when commercial agriculture is included. In October the City recorded conservation of 27.8% when commercial agriculture is excluded and 19.8% reduction when commercial agriculture is included. The results improved to 34.5% reduction when commercial agriculture is excluded and 25.1% reduction when commercial agriculture is included.

In December, results slipped slightly to 29.9%. Industrial agriculture consumption spiked by 10 million gallons from November to December, while non-industrial conservation dropped to only 13%. The onset of the winter months are showing a strong impact on conservation, encouraging residents to reduce outdoor irrigation further than previous months. Historically December and January are the months with the lowest production volumes of the year, and while non-industrial conservation was low in December, production did reduce by 11.3 million gallons in December 2015 as compared December 2014 and 44.5 million gallons as compared to December 2013.

Attached is the December 2015 conservation dashboard.

STAFF RECOMMENDATION:

Receive State mandated water conservation report for December 2015.

CITY ATTORNEY REVIEW/COMMENTS: Yes No N/A

IS ADDITIONAL (NON-BUDGETED) FUNDING REQUIRED: Yes No N/A

FUNDING SOURCE/ACCOUNT NUMBER:

Signed: Benjamin Siegel

Title: Management Analyst

Date: February 4, 2016

City Manager Approval: *AS*

Conservation Update
02/04/2016

	JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
	2013	2015	2013	2015	2013	2015	2013	2015	2013	2015	2013	2015	2013	2015
Water Production*#	554,297,400	367,702,100	615,321,100	393,064,200	616,780,600	417,339,600	497,710,400	378,683,300	402,728,000	290,660,600	301,644,700	197,301,600	237,044,400	166,144,500
% Change from 2013	-33.66%		-36.12%		-32.34%		-23.91%		-27.83%		-34.59%		-29.91%	
Commercial Ag Production - 2015	125,110,000		135,479,000		123,064,000		126,813,000		126,668,000		122,329,000		132,479,000	

*Non-Potable water Excluded

#Commercial Agriculture Excluded

NOTE: Conservations numbers represent conservation efforts excluding Industrial Agriculture

	JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
	2014	2015	2014	2015	2014	2015	2014	2015	2014	2015	2014**	2015	2014	2015
Water Revenues*	\$244,141	\$286,875	\$243,024	\$286,144	\$245,859	\$287,322	\$245,754	\$287,433	\$244,732	\$288,040	\$262,985	\$285,417	\$247,924	\$287,539
Fixed Portion	17.50%		17.74%		17.50%		16.96%		17.70%		8.53%		15.98%	
% Change from 2014	\$298,815	\$210,412	\$299,933	\$255,291	\$311,814	\$250,010	\$251,536	\$238,521	\$270,293	\$272,981	\$243,439	\$191,238	\$96,100	\$100,064
Variable Portion	-29.58%		-14.88%		-29.58%		-5.17%		0.99%		-21.44%		4.13%	
% Change from 2014	\$542,956	\$497,287	\$542,956	\$541,435	\$557,672	\$537,331	\$497,291	\$525,954	\$515,025	\$561,021	\$506,424	\$476,655	\$344,023	\$387,603
Revenue Totals	-8.41%		-0.28%		-8.41%		5.76%		8.93%		-5.88%		12.67%	
Aggregate % Change from 2014														

* Revenue above does not include Commercial Ag revenue or any Drought Surcharge Revenue

**November, 2014 difference of \$18,253 is due to the change in how contractor billings were handled. Beginning December, 2014 contractor with meters are charged monthly rather than the end of the project.

**CITY OF TULARE, CALIFORNIA
BOARD OF PUBLIC UTILITIES COMMISSIONERS
AGENDA ITEM TRANSMITTAL SHEET**

Submitting Department: Public Works / Solid Waste Division

For Board Meeting of: February 4, 2016

Documents Attached: Ordinance Resolution Staff Report Other None

AGENDA ITEM:

Adopt Resolution 16-02 to authorize submittal of application for payment programs and related authorizations.

IS PUBLIC HEARING REQUIRED: Yes No

BACKGROUND/EXPLANATION:

The City receives funds from the California Department of Resources Recycling and Recovery (CalRecycle) for the California Beverage Container Recycling and Litter Reduction Program (Bottle Bill Funds) and the Curbside Recycling Program. Bottle Bill funds are paid to the City based on a per capita basis and the Curbside Recycling funds are paid to the City based on tonnage from our residential curbside recycling programs.

With the termination of the CWMA, the City now receives these funds directly from CalRecycle. These funds are required to be used for activities related to beverage container recycling programs. We have received \$16,508.00 for fiscal year 2014-15 from the Bottle Bill Fund and \$11,106.09 from the Curbside Recycling for calendar year 2014.

Beginning with the fiscal year 2015-16 funding cycle, all jurisdictions are required to provide a Resolution to receive funding from the Beverage Recycling Payment Programs and related authorizations.

STAFF RECOMMENDATION:

Adopt Resolution 16-02 as per CalRecycle's new requirement for payment programs and related authorizations.

CITY ATTORNEY REVIEW/COMMENTS: Yes No N/A

IS ADDITIONAL (NON-BUDGETED) FUNDING REQUIRED: Yes No N/A

FUNDING SOURCE/ACCOUNT NUMBER:

Signed: Frank Rodriguez

Title: Solid Waste Manager

Date: January 14, 2016

City Manager Approval: DD

RESOLUTION NO. 16-02

**A RESOLUTION OF BOARD OF PUBLIC UTILITIES OF THE CITY OF TULARE
AUTHORIZING SUBMITTAL OF APPLICATION FOR PAYMENT PROGRAMS AND
RELATED AUTHORIZATIONS**

WHEREAS, pursuant to Public Resources Code section 48000 et seq. the Department of Resources Recycling and Recovery (CalRecycle) has established various payment programs to make payments to qualifying jurisdictions; and

WHEREAS, in furtherance of this authority CalRecycle is required to establish procedures governing the administration of the payment programs; and

WHEREAS, CalRecycle's procedures for administering payment programs require, among other things, an applicant's governing body to declare by resolution certain authorizations related to the administration of the payment program.

NOW, THEREFORE, BE IT RESOLVED that the City of Tulare is authorized to submit an application to CalRecycle for any and all payment programs offered; and

BE IT FURTHER RESOLVED that the Public Works Director, or his/her designee, is hereby authorized as Signature Authority to execute all documents necessary to implement and secure payment; and

BE IT FURTHER RESOLVED that this authorization is effective until rescinded by the Signature Authority or this Governing Body.

PASSED, ADOPTED AND APPROVED this ____ day of _____, 2016

President of the Board of Public Utilities of the City
of Tulare

ATTEST:

STATE OF CALIFORNIA)
COUNTY OF TULARE) ss.
CITY OF TULARE)

I, Don Dorman, City Clerk of the City of Tulare, certify the foregoing is the full and true Resolution 16-02 passed and adopted by the Board of Public Utilities of the City of Tulare at a regular meeting held on _____, 2016, by the following vote:

Aye(s) _____

Noe(s) _____ Absent/Abstention(s) _____

Dated: DON DORMAN, CITY CLERK

By Shonna Oneal, Deputy City Clerk

**CITY OF TULARE, CALIFORNIA
BOARD OF PUBLIC UTILITIES COMMISSIONERS
AGENDA ITEM TRANSMITTAL SHEET**

Submitting Department: Public Works / Solid Waste

For Board Meeting of: February 4, 2016

Documents Attached: Ordinance Resolution Staff Report Other None

AGENDA ITEM:

Authorize Community Services & Employment Training (C-SET), an Approved Collector, to act as an Agent for the City of Tulare when conducting recovery activities in the Covered Electronic Waste Recovery and Recycling Payment System and approve the Public Works Director to act as the Designating Authority for the City of Tulare.

IS PUBLIC HEARING REQUIRED: Yes No

BACKGROUND/EXPLANATION:

Community Services & Employment Training (C-SET) is a designated collector of electronic waste in California, such as old TV's and computer equipment. On September 1, 2005 the City of Tulare authorized C-SET, in their capacity as an Approved Collector in the Covered Electronic Waste (CEW) Recovery and Recycling Payment System, to handle CEW generated from California sources within the jurisdictional responsibility of the City of Tulare. The previous Proof of Designation form expired on December 31, 2015. C-SET needs an executed proof of designation form from the city designating them as our agent for this program within the city limits. The designation would begin on January 1, 2016 and expire on December 31, 2020.

C-SET would continue programs of collection where they will go to the home or business to get the old TV or computer equipment, collect unwanted e-waste from local residents during events as well as from the drop off locations in town. There is no cost to the citizens or to the City for this program.

STAFF RECOMMENDATION:

Authorize Community Services & Employment Training (C-SET), an Approved Collector, to act as an Agent for the City of Tulare when conducting recovery activities in the Covered Electronic Waste (CEW) Recovery and Recycling Payment System and approve the Public Works Director to act as the Designating Authority for the City of Tulare.

CITY ATTORNEY REVIEW/COMMENTS: Yes No N/A

IS ADDITIONAL (NON-BUDGETED) FUNDING REQUIRED: Yes No N/A
FUNDING SOURCE/ACCOUNT NUMBER:

Signed: Frank Rodriguez

Title: Solid Waste Manager

Date: February 4, 2016

City Manager Approval: 

PROOF OF DESIGNATION

This form may be used as a *Proof of Designation* by a *Designated Approved Collector*, pursuant to 14 CCR 18660.5(a)(29), when duly executed by and secured from a designating local government. A copy of this form must accompany the covered electronic waste (CEW) collection logs associated with CEWs transferred from a designated approved collector to an approved recycler. A copy of this form and associated collection logs must also accompany any recycling payment claim that includes CEWs received from a designated approved collector.

Designating Jurisdiction: City of Tulare	
Designated Approved Collector Name: Community Services & Employment Training, Inc. (CSET)	CEWID #: 102584
Designation Start Date: January 1, 2015	Designation End Date: December 31, 2020

Geographic Area of Service: City of Tulare
Location(s) of Collection Activities: Churches, Schools, Fire Stations, Retail Outlets, Businesses, City Corporate Yards and other designated sites as permission is granted

Type of Collection Activities (check all that apply):

<input checked="" type="checkbox"/> Drop-off	<input checked="" type="checkbox"/> Illegal Disposal Clean-up
<input checked="" type="checkbox"/> Curbside	<input checked="" type="checkbox"/> Special Events
<input checked="" type="checkbox"/> Other (specify): pick up services and source anonymous pick up	

CEW Sources Served (check all that apply):

<input checked="" type="checkbox"/> Residents	<input checked="" type="checkbox"/> Government
<input checked="" type="checkbox"/> Businesses	<input checked="" type="checkbox"/> Educational / Non-Profit Institutions
<input checked="" type="checkbox"/> Other (specify): pick up services and source anonymous pick up	

Designating Authority

Name (printed): Joseph Carlini	Title: Public Works Director
Signature:	Phone: 559-684-4318
	E-Mail: jcarlini@tulare.ca.gov
Address: 3981 South "K" Street, Tulare, CA 93274	

DIRECTIONS FOR COMPLETING THE PROOF OF DESIGNATION FORM

This form may be completed by a local government to demonstrate that it has designated the identified Approved Collector in the Covered Electronic Waste (CEW) Recovery and Recycling Payment System to act as a Designated Approved Collector for the local government when handling CEWs generated from California sources within the jurisdictional responsibility of the designating local government.

The authority to designate an Approved Collector, as well as any supporting agreements, may be determined by the designating local government.

Only CEW recovery activities that fall within the scope of the designation may be handled by the identified Approved Collector while acting as a Designated Approved Collector for the local government. CEW recovery activities conducted by the Approved Collector that fall outside the scope of designation must be logged and recorded according to applicable regulatory requirements.

In general, CEW recovery activities conducted by a Designated Approved Collector will involve CEWs transferred directly to the Designated Approved Collector by California sources. Such activities must be recorded through collection logs as required by regulation.

PARTIAL SUMMARY OF APPLICABLE LAWS AND REGULATIONS

Title 14 CCR

18660.5(a)(19) "Designated Approved Collector" means an approved collector, as defined in subsection (a)(2) of this section, that has been designated by a California local government to provide CEW collection services for or on behalf of the local government and who, in the course of providing the services for the local government, would not be subject to the source documentation requirements pursuant to Section 18660.20(j)(1)(B) of this Chapter.

18660.20(h) An approved collector shall provide to any approved collector or approved recycler to whom it transfers CEW's information on the origin (California or non-California) and cancellation status of CEWs transferred, including but not limited to the following:

- (1) Signed statement listing the sources(s) of the transferred CEWs as recorded pursuant to subsection (j) of this section.
- (2) A copy(ies) of the applicable portions of the collection log specified in subsection (j) of this section that describe the collection activities that resulted in the transferred CEWs.
- (3) Written description of any activity, such as storage, repair, refurbishment, resale, reuse, transfer, packaging and/or consolidation, that explains any discrepancy between the CEWs transferred and the CEWs collected as recorded in the log specified in subsection (j) of this section.
- (4) A copy of any applicable proof of designation specified in subsection (k) of this section associated with CEWs collected while acting as a designated approved collector for a local government.

18660.20(j) In addition to the general record keeping requirements in Section 18660.8 of this Chapter, an approved collector shall maintain the following records:

- (1) A collection log containing:
 - (A) For each collection activity or event that results in CEWs transferred to the approved collector, a brief written description of the collection activity or event, including the type of consumers targeted for collection, the date and location the activity or event occurred, the number of CEWs collected, and an estimate of the weight of CEWs collected.
 - (B) Approved collectors that are not California local governments, nor entities acting as the designated approved collector for a California local government, shall maintain a list of all consumers who discarded the CEWs transferred to the approved collector, including the name and address of the consumer and the number of CEWs discarded by the consumer.
 - (C) When receiving five (5) or more CEWs units discarded from a non-residential consumer, an approved collector shall record the name of the non-residential organization, an address, a contact person and a telephone number.
 - (D) A list of other handlers and approved collectors who transferred CEWs to the approved collector in any month, including the name and address of the other handler and approved collector and the number of CEWs transferred and the sources of those CEWs as recorded pursuant to parts (A) and (B) of this Section.
 - (E) When collecting source-anonymous CEWs, all approved collectors shall:
 1. Log the source-anonymous CEW collection activity separately.
 2. Provide a brief written description of the activity or incident that resulted in the source-anonymous CEWs.
 3. Record the date and location of the activity or incident, the number and an estimate of the weight of source-anonymous CEWs collected from the location of the activity or incident.
 4. Record the name, organizational affiliation, address and phone number of a person responsible for the site of the activity or incident.

CITY OF TULARE, CALIFORNIA
BOARD OF PUBLIC UTILITIES COMMISSIONERS
AGENDA ITEM TRANSMITTAL SHEET

Submitting Department: Development Services – Engineering

For Board Meeting of: February 4, 2016

Documents Attached: Ordinance Resolution Staff Report Other None

AGENDA ITEM:

Review the updated findings of a water system analysis of the Oak Creek multi-family development, and reconsider a request by the Developer, Greg Nunley, to allow 32-multi-family units connections and landscaping of said development to the City water system subject to the conditions as presented.

IS PUBLIC HEARING REQUIRED: Yes No

BACKGROUND/EXPLANATION:

Oak Creek is a proposed 32-unit multi-family development on 3.37 acres located along the south side of Seminole Avenue east of Mooney Boulevard. The development would include 32 units consisting of 15 three-bedroom units, 16 two-bedroom units, and 1 manager's unit. The Developer is seeking authorization for the new water service connections that would be required to support the development.

On January 21, 2016, staff presented the results of a water analysis that indicated there was insufficient supply capacity in the City's water system to meet the expected demands of pending/approved projects plus the Oak Creek project. A representative of the Developer offered to trade previously approved connections associated with another one of their projects, the Quail Creek subdivision. Staff advised BPU that 13 single-family connections in the Quail Creek subdivision would be equivalent to the 32 multi-family connections requested for the Oak Creek developments. A recommendation was made by staff to approve the requested connections for the Oak Creek project in exchange for rescinding 13 of the previously approved connections for the Quail Creek subdivision. The Developer was agreeable to this option. BPU approved the requested connections for the Oak Creek project subject to the exchange and additional standard conditions of approval. However, staff was directed to provide BPU with a printout of the City's Capacity Versus Demand Comparison Tool showing the exchange scenario at their next meeting.

In preparing the updated analysis, Public Works and Engineering staff revisited the assumptions made regarding the projected supply capacity of the City's water system. Taking into consideration planned improvements to the system, and the availability of existing and projected funding, staff has determined that it would be appropriate to program an additional 2.5 MGD of supply capacity into City's Capacity Versus Demand Comparison Tool effective August 2017. Doing so adds sufficient capacity to support

the requested Oak Creek connections without the need to exchange connection approvals from the Quail Creek subdivision.

Staff is recommending that the conditional approval granted by the BPU at their January 21, 2016 meeting be amended to eliminate the requirement to exchange approved connections from the Quail Creek subdivision. This request has been reviewed by the Public Works Director and he has provided his certification of the ability to serve based on the revised conditions listed below. Included in this certification is the assumption that the City's current water conservation stage remains in Stage 3. If this water conservation standard is reduced it will change the validity of this certification because of the increased demand on the City's water system.

STAFF RECOMMENDATION:

Accept the findings of the water system analysis performed by staff for the Oak Creek multi-family development, and authorize new connections to the City water system for 32 multi-family units and landscaping subject to the following conditions of approval:

1. Finding by the City Engineer that the entitled project is consistent with the Application for Hydraulic Water Model Analysis submitted by the Developer,
2. Full entitlement of the project and issuance of first building permit by February 4, 2017,
3. Prior to issuance of first building permit, confirmation by the Public Works Director that the firm supply of the City water system has not significantly decreased from the date of conditional approval, that connecting the units will not cause water pressure to drop below City standards at any place in the City solely because of connecting the project, that estimated demand is still less than or equal to the estimated firm supply, and that based on the first three assessments, that the connection will not put public health and safety at risk.

CITY ATTORNEY REVIEW/COMMENTS: Yes No

IS ADDITIONAL (NON-BUDGETED) FUNDING REQUIRED: Yes No

Signed: Michael Miller

Title: City Engineer

Date: January 28, 2016

City Manager Approval: 

36-Month Added Demand Projections (MGD) Oak Creek Project With Additional 2.5 MGD by Aug 2017

Supply vs. Demand Analysis		Sep-15	Oct-15	Nov-15	Dec-15	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
		Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17				
(1)	Well Delivery Capacity	26.42	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95
(2)	Storage Tank Delivery Capacity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(3)	Total Delivery Capacity (1) + (2)	26.42	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95
(4)	System Loss	1.18	1.52	2.69	0.43	1.21	0.24	1.17	0.30	0.97	1.25	1.09	2.24	0.33	1.73	2.69	0.43	1.21	0.24	1.17	0.30	0.97	1.25
(5)	Well Outage Loss (Reserve Capacity)	6.60	7.99	7.99	7.99	7.99	7.99	7.99	7.99	7.99	7.99	7.99	7.99	7.99	7.99	7.99	7.99	7.99	7.99	7.99	7.99	7.99	7.99
(6)	Total Capacity Loss (4) + (5)	7.78	9.51	10.67	8.41	9.19	8.23	9.16	8.29	8.95	9.24	9.08	10.23	8.31	9.71	10.67	8.41	9.19	8.23	9.16	8.29	8.95	9.24
(7)	Firm Supply (3) - (6)	18.64	22.44	21.28	23.54	22.76	23.72	22.79	23.66	23.00	22.71	22.87	21.72	23.64	22.24	21.28	23.54	22.76	23.72	22.79	23.66	23.00	22.71
(8)	Estimated Demand For Current Conditions	16.85	13.46	10.65	10.71	12.21	11.37	12.66	15.25	19.73	22.07	22.03	20.33	17.38	16.57	12.85	10.71	12.21	11.37	12.66	15.25	19.73	22.07
(9)	Conservation Effect *	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71
(10)	Adjustments (+/-)																						
(11)	Estimated Added Project Demand By Month	0.007	0.011	0.005	0.003	0.005	0.008	0.007	0.006	0.005	0.018	0.009	0.012	0.010	0.017	0.055	0.008	0.011	0.010	0.010	0.007	0.015	0.007
(12)	Cumulative	0.007	0.018	0.023	0.026	0.031	0.038	0.046	0.052	0.057	0.075	0.084	0.096	0.106	0.122	0.178	0.186	0.197	0.206	0.216	0.223	0.238	0.245
(13)	Total Estimated Demand (8) + (10) + (12)	16.86	13.48	10.68	10.73	12.24	11.41	12.70	15.30	19.78	22.14	22.11	20.42	17.48	16.69	13.03	10.89	12.41	11.58	12.87	15.47	19.96	22.31
(14)	Firm Supply Less Total Estimated Demand (7) - (13)	1.78	8.96	10.60	12.81	10.51	12.31	10.09	8.36	3.21	0.56	0.76	1.30	6.15	5.55	8.25	12.65	10.35	12.14	9.92	8.19	3.03	0.39
		OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK

* Conservation Effect: Stage 2 = 0 (Baseline), Stage 3 = 1.0706849 MGD, Stage 4 = 3.208191 MGD

Peak Hour Demand Analysis		Sep-15	Oct-15	Nov-15	Dec-15	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
		Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17				
(15)	Estimated Average Demand	16.60	15.56	8.95	12.53	12.03	12.54	13.55	15.30	17.56	19.78	19.78	19.80	16.70	15.66	9.11	12.69	12.20	12.71	13.72	15.47	17.74	19.94
(16)	Estimated Pk Hour Demand	23.90	22.40	12.89	18.04	17.32	18.06	19.51	22.03	25.28	28.48	28.49	28.51	24.04	22.55	13.11	18.27	17.56	18.30	19.75	22.28	25.54	28.72
(17)	Adjustments (+/-)	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08
(18)	Firm Supply (7)	18.64	22.44	21.28	23.54	22.76	23.72	22.79	23.66	23.00	22.71	22.87	21.72	23.64	22.24	21.28	23.54	22.76	23.72	22.79	23.66	23.00	22.71
(19)	Estimated Pk Hour Net (18) - (16) + (17)	-4.18	1.12	9.46	6.58	6.51	6.74	4.37	2.71	-1.20	-4.69	-4.54	-5.70	0.68	0.76	9.24	6.35	6.27	6.50	4.12	2.46	1.47	4.93
(20)	Standard Daily average Pressure	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00
(21)	Average Max Day Pressure	54.07	52.53	56.00	58.35	56.53	58.64	57.19	56.65	53.56	53.88	55.13	58.03	58.85	59.24	56.96	58.35	56.53	58.64	57.19	56.65	53.56	53.88
	Check: (21) > (20) ?	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
(22)	Standard Daily Minimum Pressure	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
(23)	Peak Minimum Pressure PSI	39.90	39.73	41.90	49.61	44.24	47.26	47.15	46.19	43.89	43.63	45.69	45.19	44.90	47.14	46.26	49.61	44.24	47.26	47.15	46.19	43.89	43.63
(24)	Estimated Pressure Change (PSI)	-8.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-2.51	-8.14	-9.46	-11.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-3.05	-10.27
(25)	Estimated Pk Hour Minimum Pressure (23) + (24)	31.19	39.73	41.90	49.61	44.24	47.26	47.15	46.19	41.38	35.49	36.23	33.30	44.90	47.14	46.26	49.61	44.24	47.26	47.15	46.19	40.84	33.36
	Recorded Minimum Spot Pressure	33.00	36.00	40.00	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
	Check: (25) > (22) ?	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
	Actual Minimum Spot Pressure Measured	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
	Connections Authorized Since 12/11/14	535	535	918	919	922	925	928	931	934	937	940	943	946	949	952	955	958	961	964	967	970	973
	Connections Completed Since 12/11/14	106	130	143	150	160	176	193	205	217	234	250	276	298	329	470	488	516	535	557	572	587	602
	Connections Projected/Actual	16/17	24/24	12/13	5/7	10	16	17	12	12	17	16	26	22	31	141	18	28	19	22	15	15	15

36-Month Added Demand Projections (MGD) Oak Creek Project With Additional 2.5 MGD by Aug 2017

Supply vs. Demand Analysis	19 Jul-17	20 Aug-17	21 Sep-17	22 Oct-17	23 Nov-17	24 Dec-17	25 Jan-18	26 Feb-18	27 Mar-18	28 Apr-18	29 May-18	30 Jun-18	31 Jul-18	32 Aug-18	33 Sep-18	34 Oct-18	35 Nov-18	36 Dec-18
(1) Well Delivery Capacity	31.95	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45
(2) Storage Tank Delivery Capacity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(3) Total Delivery Capacity (1) + (2)	31.95	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45
(4) System Loss	1.09	2.24	2.24	1.79	2.69	0.43	1.21	0.24	1.17	0.30	0.97	1.25	1.09	2.24	2.24	2.24	2.24	2.24
(5) Well Outage Loss (Reserve Capacity)	7.99	8.61	8.61	8.61	8.61	8.61	8.61	8.61	8.61	8.61	8.61	8.61	8.61	8.61	8.61	8.61	8.61	8.61
(6) Total Capacity Loss (4) + (5)	9.08	10.85	10.85	10.34	11.30	9.04	9.82	8.86	9.78	8.91	9.58	9.87	9.71	10.85	10.85	10.85	10.85	10.85
(7) Firm Supply (3) - (6)	22.87	23.60	23.60	24.11	23.15	25.41	24.63	25.59	24.67	25.54	24.87	24.58	24.74	23.60	23.60	23.60	23.60	23.60
(8) Estimated Demand For Current Conditions	22.03	20.33	17.38	16.57	12.85	10.71	12.21	11.37	12.66	15.25	19.73	22.07	22.03	20.33	17.38	16.57	12.85	12.85
(9) Conservation Effect *	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71
(10) Adjustments (+/-)																		
(11) Estimated Added Project Demand By Month	0.007	0.007	0.606	0.006	0.006	0.006	0.006	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003
(12) Cumulative	0.251	0.258	0.864	0.870	0.876	0.882	0.888	0.892	0.897	0.901	0.906	0.910	0.914	0.918	0.921	0.925	0.929	0.932
(13) Total Estimated Demand (8) + (10) + (12)	22.28	20.58	18.24	17.44	13.72	11.59	13.10	12.27	13.56	16.15	20.63	22.98	22.94	21.24	18.30	17.49	13.78	13.78
(14) Firm Supply Less Total Estimated Demand (7) - (13)	0.59	3.01	5.35	6.67	9.43	13.82	11.53	13.33	11.11	9.39	4.24	1.60	1.80	2.35	5.30	6.10	9.82	9.82
	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK

* Conservation Effect; Stage 2 = 0 (Base)

Peak Hour Demand Analysis	19 Jul-17	20 Aug-17	21 Sep-17	22 Oct-17	23 Nov-17	24 Dec-17	25 Jan-18	26 Feb-18	27 Mar-18	28 Apr-18	29 May-18	30 Jun-18	31 Jul-18	32 Aug-18	33 Sep-18	34 Oct-18	35 Nov-18	36 Dec-18
(15) Estimated Average Demand	19.95	19.96	17.45	16.12	14.38	13.38	12.89	13.39	14.40	16.15	18.41	20.61	20.61	20.62	18.42	16.18	14.43	0.93
(16) Estimated Pk Hour Demand	28.73	28.74	25.13	23.21	20.70	19.27	18.56	19.29	20.73	23.26	26.50	29.68	29.68	29.69	26.53	23.29	20.78	1.34
(17) Adjustments (+/-)	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08
(18) Firm Supply (7)	22.87	23.60	23.60	24.11	23.15	25.41	24.63	25.59	24.67	25.54	24.87	24.58	24.74	23.60	23.60	23.60	23.60	23.60
(19) Estimated Pk Hour Net (18) - (16) + (17)	-4.78	-4.06	-0.46	1.98	3.53	7.22	7.15	7.39	5.02	3.36	0.55	-4.01	-3.86	-5.01	-1.85	1.38	3.90	23.33
(20) Standard Daily average Pressure	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00
(21) Average Max Day Pressure	55.13	58.03	58.85	59.24	56.96	58.35	56.53	58.64	57.19	56.65	53.56	53.88	55.13	58.03	58.85	59.24	56.96	56.96
Check: (21) > (20) ?	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
(22) Standard Daily Minimum Pressure	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
(23) Peak Minimum Pressure PSI	45.69	45.19	44.90	47.14	46.26	49.61	44.24	47.26	47.15	46.19	43.89	43.63	45.69	45.19	44.90	47.14	46.26	46.26
(24) Estimated Pressure Change (PSI)	-9.96	-8.46	-0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.15	-8.36	-8.04	-10.44	-3.85	0.00	0.00	0.00
(25) Estimated Pk Hour Minimum Pressure (23) + (24)	35.73	36.73	43.95	47.14	46.26	49.61	44.24	47.26	47.15	46.19	42.74	35.27	37.65	34.75	41.05	47.14	46.26	46.26
Recorded Minimum Spot Pressure	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Check: (25) > (23) ?	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
Actual Minimum Spot Pressure Measured	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Connections Authorized Since 12/11/14	976	979	982	985	988	991	994	997	1000	1003	1006	1009	1012	1015	1018	1021	1024	1027
Connections Completed Since 12/11/14	617	878	893	906	919	932	944	954	963	972	981	989	996	1,003	1,010	1,017	1,024	1,031
Connections Projected/Actual	15	261	15	13	13	13	12	10	9	9	9	8	7	7	7	7	7	7

CITY OF TULARE, CALIFORNIA
BOARD OF PUBLIC UTILITIES COMMISSIONERS
AGENDA ITEM TRANSMITTAL SHEET

Submitting Department: Development Services – Engineering

For Board Meeting of: February 4, 2016

Documents Attached: Ordinance Resolution Staff Report Other None

AGENDA ITEM:

Review the findings of a water system analysis of the Quail Hollow small lot subdivision development, and consider a request by the Developer, Holmes Properties, LLC, to allow 14 new water connections of said development to the City water system subject to the conditions as presented.

IS PUBLIC HEARING REQUIRED: Yes No

BACKGROUND/EXPLANATION:

Quail Hollow is a proposed 16 lot subdivision on 1.85 acres located along the south side of Bardsley Avenue east of Laspina Street. The development would be constructed in two phases. The first phase would result in 8 units, and the second would result in 6 units. An existing residence with water service is located on the second phase, and would be removed during development of the second phase. Taking into account the loss of the existing residence, the Developer is requesting authorization for a total of 14 new single-family connections to the City water system.

Using the City's Capacity Versus Demand Comparison Tool and information provided in the Developer's Application for Hydraulic Water Model Analysis, the anticipated impacts of the proposed project were evaluated by staff. As indicated in the attached copy of the comparison tool results, it is anticipated that the City's water system will have sufficient capacity to accommodate pending/approved projects plus the proposed Quail Hollow development. This determination is based upon projections that an additional 2.5 MGD of supply capacity will be added to the system by August 2017.

Staff is recommending that conditional approval for the 14 new connections associated with the Quail Hollow project be granted. This request has been reviewed by the Public Works Director and he has provided his certification of the ability to serve based on the revised conditions listed below. Included in this certification is the assumption that the City's current water conservation stage remains in Stage 3. If this water conservation standard is reduced it will change the validity of this certification because of the increased demand on the City's water system.

36-Month Added Demand Projections (MGD) Quail Hollow Project With Additional 2.5 MGD by Aug 2017

Supply vs. Demand Analysis		Sep-15	Oct-15	Nov-15	Dec-15	1 Jan-16	2 Feb-16	3 Mar-16	4 Apr-16	5 May-16	6 Jun-16	7 Jul-16	8 Aug-16	9 Sep-16	10 Oct-16	11 Nov-16	12 Dec-16	13 Jan-17	14 Feb-17	15 Mar-17	16 Apr-17	17 May-17	18 Jun-17
(1)	Well Delivery Capacity	26.42	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95
(2)	Storage Tank Delivery Capacity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(3)	Total Delivery Capacity (1) + (2)	26.42	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95
(4)	System Loss	1.18	1.52	2.69	0.43	1.21	0.24	1.17	0.30	0.97	1.25	1.09	2.24	0.33	1.73	2.69	0.43	1.21	0.24	1.17	0.30	0.97	1.25
(5)	Well Outage Loss (Reserve Capacity)	6.60	7.99	7.99	7.99	7.99	7.99	7.99	7.99	7.99	7.99	7.99	7.99	7.99	7.99	7.99	7.99	7.99	7.99	7.99	7.99	7.99	7.99
(6)	Total Capacity Loss (4) + (5)	7.78	9.51	10.67	8.41	9.19	8.23	9.16	8.29	8.95	9.24	9.08	10.23	8.31	9.71	10.67	8.41	9.19	8.23	9.16	8.29	8.95	9.24
(7)	Firm Supply (3) - (6)	18.64	22.44	21.28	23.54	22.76	23.72	22.79	23.66	23.00	22.71	22.87	21.72	23.64	22.24	21.28	23.54	22.76	23.72	22.79	23.66	23.00	22.71
(8)	Estimated Demand For Current Conditions	16.85	13.46	10.65	10.71	12.21	11.37	12.66	15.25	19.73	22.07	22.03	20.33	17.38	16.57	12.85	10.71	12.21	11.37	12.66	15.25	19.73	22.07
(9)	Conservation Effect *	-1.71	-1.71	-1.71	-1.71	-1.71	1.71	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71	1.71	-1.71	-1.71	-1.71	-1.71
(10)	Adjustments (+/-)																						
(11)	Estimated Added Project Demand By Month	0.007	0.011	0.005	0.003	0.005	0.008	0.007	0.006	0.005	0.018	0.009	0.012	0.010	0.017	0.055	0.008	0.011	0.010	0.010	0.007	0.015	0.007
(12)	Cumulative	0.007	0.018	0.023	0.026	0.031	0.038	0.046	0.052	0.057	0.075	0.084	0.096	0.106	0.122	0.178	0.186	0.197	0.206	0.216	0.223	0.239	0.246
(13)	Total Estimated Demand (8) + (10) + (12)	16.86	13.48	10.68	10.73	12.24	11.41	12.70	15.30	19.78	22.14	22.11	20.42	17.48	16.69	13.03	10.89	12.41	11.58	12.87	15.47	19.97	22.31
(14)	Firm Supply Less Total Estimated Demand (7) - (13)	1.78	8.96	10.60	12.81	10.51	12.31	10.09	8.36	3.21	0.56	0.76	1.30	6.15	5.55	8.25	12.65	10.35	12.14	9.92	8.19	3.03	0.39
		OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK

* Conservation Effect: Stage 2 = 0 (Baseline), Stage 3 = 1.0706849 MGD, Stage 4 = 3.208191 MGD

Peak Hour Demand Analysis		Sep-15	Oct-15	Nov-15	Dec-15	1 Jan-16	2 Feb-16	3 Mar-16	4 Apr-16	5 May-16	6 Jun-16	7 Jul-16	8 Aug-16	9 Sep-16	10 Oct-16	11 Nov-16	12 Dec-16	13 Jan-17	14 Feb-17	15 Mar-17	16 Apr-17	17 May-17	18 Jun-17
(15)	Estimated Average Demand	16.60	15.56	8.95	12.53	12.03	12.54	13.55	15.30	17.56	19.78	19.78	19.80	16.70	15.66	9.11	12.69	12.20	12.71	13.72	15.47	17.74	19.95
(16)	Estimated Pk Hour Demand	23.90	22.40	12.89	18.04	17.32	18.06	19.51	22.03	25.28	28.48	28.49	28.51	24.04	22.55	13.11	18.27	17.56	18.30	19.75	22.28	25.54	28.72
(17)	Adjustments (+/-)	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08
(18)	Firm Supply (7)	18.64	22.44	21.28	23.54	22.76	23.72	22.79	23.66	23.00	22.71	22.87	21.72	23.64	22.24	21.28	23.54	22.76	23.72	22.79	23.66	23.00	22.71
(19)	Estimated Pk Hour Net (18) - (16) + (17)	-4.18	1.12	9.46	6.58	6.51	6.74	4.37	2.71	-1.20	4.69	-4.54	-5.70	0.68	0.76	9.24	6.35	6.27	6.50	4.12	2.46	-1.47	-4.93
(20)	Standard Daily average Pressure	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00
(21)	Average Max Day Pressure	54.07	52.53	56.00	58.35	56.53	58.64	57.19	56.65	53.56	53.88	55.13	58.03	58.85	59.24	56.96	58.35	56.53	58.64	57.19	56.65	53.56	53.88
	Check: (21) > (20) ?	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
(22)	Standard Daily Minimum Pressure	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
(23)	Peak Minimum Pressure PSI	39.90	39.73	41.90	49.61	44.24	47.26	47.15	46.19	43.89	43.63	45.69	45.19	44.90	47.14	46.26	49.61	44.24	47.26	47.15	46.19	43.89	43.63
(24)	Estimated Pressure Change (PSI)	-8.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-2.51	-8.14	-9.46	-11.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-3.05	-10.28
(25)	Estimated Pk Hour Minimum Pressure (23) + (24)	31.19	39.73	41.90	49.61	44.24	47.26	47.15	46.19	41.38	35.49	36.23	33.30	44.90	47.14	46.26	49.61	44.24	47.26	47.15	46.19	40.84	33.36
	Recorded Minimum Spot Pressure	33.00	36.00	40.00	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
	Check: (25) > (22) ?	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
	Actual Minimum Spot Pressure Measured	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
	Connections Authorized Since 12/11/14	535	535	918	919	922	925	928	931	934	937	940	943	946	949	952	955	958	961	964	967	970	973
	Connections Completed Since 12/11/14	106	130	143	150	160	176	193	205	217	234	250	276	298	329	470	488	516	535	557	572	587	602
	Connections Projected/Actual	16/17	24/24	12/13	5/7	10	16	17	12	12	17	16	26	22	31	141	18	28	19	22	15	15	15

36-Month Added Demand Projections (MGD) Quail Hollow Project With Additional 2.5 MGD by Aug 2017

Supply vs. Demand Analysis	19 Jul-17	20 Aug-17	21 Sep-17	22 Oct-17	23 Nov-17	24 Dec-17	25 Jan-18	26 Feb-18	27 Mar-18	28 Apr-18	29 May-18	30 Jun-18	31 Jul-18	32 Aug-18	33 Sep-18	34 Oct-18	35 Nov-18	36 Dec-18
(1) Well Delivery Capacity	31.95	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45
(2) Storage Tank Delivery Capacity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(3) Total Delivery Capacity (1) + (2)	31.95	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45
(4) System Loss	1.09	2.24	2.24	1.73	2.69	0.43	1.21	0.24	1.17	0.30	0.97	1.25	1.09	2.24	2.24	2.24	2.24	2.24
(5) Well Outage Loss (Reserve Capacity)	7.99	8.61	8.61	8.61	8.61	8.61	8.61	8.61	8.61	8.61	8.61	8.61	8.61	8.61	8.61	8.61	8.61	8.61
(6) Total Capacity Loss (4) + (5)	9.08	10.85	10.85	10.34	11.30	9.04	9.82	8.86	9.78	8.91	9.58	9.87	9.71	10.85	10.85	10.85	10.85	10.85
(7) Firm Supply (3) - (6)	22.87	23.60	23.60	24.11	23.15	25.41	24.63	25.59	24.67	25.54	24.87	24.58	24.74	23.60	23.60	23.60	23.60	23.60
(8) Estimated Demand For Current Conditions	22.03	20.33	17.38	16.57	12.85	10.71	12.21	11.37	12.66	15.25	19.73	22.07	22.03	20.33	17.38	16.57	12.85	12.85
(9) Conservation Effect *	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71
(10) Adjustments (+/-)																		
(11) Estimated Added Project Demand By Month	0.007	0.007	0.607	0.007	0.007	0.006	0.006	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003
(12) Cumulative	0.253	0.260	0.867	0.874	0.881	0.886	0.892	0.897	0.901	0.906	0.910	0.914	0.918	0.922	0.926	0.929	0.933	0.936
(13) Total Estimated Demand (8) + (10) + (12)	22.28	20.59	18.25	17.44	13.73	11.59	13.10	12.27	13.56	16.15	20.64	22.98	22.95	21.25	18.30	17.50	13.78	13.78
(14) Firm Supply Less Total Estimated Demand (7) - (13)	0.59	3.01	5.35	6.67	9.42	13.82	11.53	13.32	11.11	9.38	4.24	1.60	1.80	2.35	5.29	6.10	9.82	9.81
	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK

* Conservation Effect: Stage 2 = 0 (Base)

Peak Hour Demand Analysis	19 Jul-17	20 Aug-17	21 Sep-17	22 Oct-17	23 Nov-17	24 Dec-17	25 Jan-18	26 Feb-18	27 Mar-18	28 Apr-18	29 May-18	30 Jun-18	31 Jul-18	32 Aug-18	33 Sep-18	34 Oct-18	35 Nov-18	36 Dec-18
(15) Estimated Average Demand	19.95	19.96	17.46	16.12	14.38	13.39	12.89	13.40	14.40	16.16	18.41	20.61	20.62	20.62	18.43	16.18	14.43	0.94
(16) Estimated Pk Hour Demand	28.73	28.74	25.14	23.22	20.71	19.28	18.56	19.29	20.74	23.26	26.51	29.68	29.69	29.70	26.53	23.30	20.78	1.35
(17) Adjustments (+/-)	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08
(18) Firm Supply (7)	22.87	23.60	23.60	24.11	23.15	25.41	24.63	25.59	24.67	25.54	24.87	24.58	24.74	23.60	23.60	23.60	23.60	23.60
(19) Estimated Pk Hour Net (18) - (16) + (17)	-4.78	-4.07	-0.46	1.97	3.52	7.22	7.15	7.38	5.01	3.35	-0.56	-4.02	-3.87	-5.02	-1.86	1.38	3.89	23.33
(20) Standard Daily average Pressure	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00
(21) Average Max Day Pressure	55.13	58.03	58.85	59.24	56.96	58.35	56.53	58.64	57.19	56.65	53.56	53.88	55.13	58.03	58.85	59.24	56.96	56.96
Check: (21) > (20) ?	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
(22) Standard Daily Minimum Pressure	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
(23) Peak Minimum Pressure PSI	45.69	45.19	44.90	47.14	46.26	49.61	44.24	47.26	47.15	46.19	43.89	43.63	45.69	45.19	44.90	47.14	46.26	46.26
(24) Estimated Pressure Change (PSI)	-9.96	-8.47	-0.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.16	-8.38	-8.05	-10.46	-3.87	0.00	0.00	0.00
(25) Estimated Pk Hour Minimum Pressure (23) + (24)	35.72	36.72	43.94	47.14	46.26	49.61	44.24	47.26	47.15	46.19	42.73	35.26	37.64	34.73	41.03	47.14	46.26	46.26
Recorded Minimum Spot Pressure	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Check: (25) > (22) ?	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
Actual Minimum Spot Pressure Measured	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Connections Authorized Since 12/11/14	976	979	982	985	988	991	994	997	1000	1003	1006	1009	1012	1015	1018	1021	1024	1027
Connections Completed Since 12/11/14	617	878	893	906	919	932	944	954	963	972	981	989	996	1,003	1,010	1,017	1,024	1,031
Connections Projected/Actual	15	261	15	13	13	13	12	10	9	9	9	8	7	7	7	7	7	7

**CITY OF TULARE, CALIFORNIA
BOARD OF PUBLIC UTILITIES COMMISSIONERS
AGENDA ITEM TRANSMITTAL SHEET**

Submitting Department: Public Works/ City Manager's Office

For Board Meeting of: February 4, 2016

Documents Attached: Ordinance Resolution Staff Report Other None

AGENDA ITEM:

Receive, approve and recommend adoption of the 2015 City of Tulare Urban Water Management Plan (UWMP) to the Tulare City Council.

IS PUBLIC HEARING REQUIRED: Yes No

BACKGROUND/EXPLANATION:

The Urban Water Management Plan (UWMP) is a regulatory requirement of Urban Water Suppliers by the State of California. The City of Tulare has previously contracted outside vendors to complete the 2005 and 2010 UWMPs and has utilized in-house staff to complete the 2015 UWMP update. The attached City Council staff transmittal and proposed resolution describe the 2015 UWMP in greater detail. Approval by the Board of Public Utilities and a public hearing and adoption by City Council is required prior to submittal of the final document to the State Department of Water Resources.

A copy of the UWMP is available at:

<http://www.tulare.ca.gov/Home/Components/News/News/104/15> and upon request at the City of Tulare Clerk's Office.

STAFF RECOMMENDATION:

Receive, approve and recommend adoption of the 2015 City of Tulare Urban Water Management Plan (UWMP) to the Tulare City Council.

CITY ATTORNEY REVIEW/COMMENTS: Yes No N/A

IS ADDITIONAL (NON-BUDGETED) FUNDING REQUIRED: Yes No N/A

FUNDING SOURCE/ACCOUNT NUMBER:

Signed: Benjamin Siegel/ Don Dorman **Title:** Management Analyst/City Manager

Date: February 4, 2016

City Manager Approval: DA

AGENDA ITEM:

**CITY OF TULARE
AGENDA ITEM TRANSMITTAL SHEET**

Submitting Department: Public Works/City Manager Office

For Council Meeting of: March 1, 2016

Documents Attached: Ordinance Resolution Staff Report Other None

AGENDA ITEM:

Public hearing to adopt Resolution 16-___ approving the City of Tulare 2015 Urban Water Management Plan (UWMP).

PUBLIC HEARING REQUIRED: Yes No

BACKGROUND/EXPLANATION:

The 2015 UWMP (here after referred as the 2015 Plan) is a comprehensive update of the 2010 Plan (which updated the 2005 Plan). The 2015 Plan was prepared in accordance with detailed guidelines published by the State of California Department of Water Resources (DWR). DWR guidelines implement the requirements outlined in Water code sections 10620, et seq. The 2015 Plan focuses on water supply available to the City (100% groundwater) and the sources of recharge and the aspects of City customer demands. The demand analyses include detailed descriptions of the City's water conservation efforts and descriptions of the structure to enforce water savings.

The 2015 Plan is organized with the following chapters:

1. Introduction and Overview
2. Plan Preparation
3. System Description
4. System Water Use
5. SBX Baselines and Targets
6. System Supplies
7. Water Supply Reliability Assessment
8. Water Shortage Contingency Planning
9. Demand Management Measures
10. Plan Adoption, Submittal and Implementation
11. Appendices

Chapter 5, regarding Senate Bill X – Baselines and Targets, describes the City's progress towards achieving the 20% reduction in water usage introduced by law into the 2010 Plan. The City has not changed the 20% targets set for 2020 in the 2010 Plan (242.4 gallons per person per day (gpcd)). The 2015 Plan shows that the City exceeded its interim 2015 goal of 272.7 (gpcd) with actual consumption of 255.9 gpcd.

Chapter 9 (with references to appropriate appendices) provides the evidentiary support for findings that the public and governmental participation requirements related to plan preparation

have been satisfied. The notices of the public hearing have been prepared in accordance with laws related to adoption of the 2015 Plan.

The 2015 Plan devotes attention to the City's efforts in connection with the Mid-Kaweah Groundwater Sustainability Agency JPA (with City of Visalia and Tulare Irrigation District). It would appear that future groundwater planning efforts by the City will be more focused in coordinating with this more regional effort.

At the conclusion of the public hearing, staff will ask the Council to adopt the 2015 Plan by resolution. The Plan along with the resolution is transmitted to DWR.

STAFF RECOMMENDATION:

Adopt Resolution 16-___ approving the City of Tulare 2015 Urban Water Management Plan.

CITY ATTORNEY REVIEW/COMMENTS: Yes N/A

IS ADDITIONAL (NON-BUDGETED) FUNDING REQUIRED: Yes No N/A

FUNDING SOURCE/ACCOUNT NUMBER:

Submitted by: Ben Siegel/Don Dorman. Title: Management Analyst/City Manager

Date: , 2016

City Manager Approval: _____

RESOLUTION 16-__

**A RESOLUTION OF THE COUNCIL OF THE CITY OF TULARE
ADOPTION OF THE 2015 URBAN WATER MANAGEMENT PLAN**

WHEREAS, the Council of the City of Tulare finds that the 2015 Urban Water Management Plan complies with Water Code section 10620, 10621 and 10631; and,

WHEREAS, the Council of the City of Tulare finds that a public hearing notice was published on February 15 and February 22, 2016 regarding the availability of the 2015 Urban Water Management Plan; and,

WHEREAS, the Council of the City of Tulare finds that the 2015 Urban Management Plan was made available to the public through the Tulare Public Library and the city's web site; and,

WHEREAS, the Council of the City of Tulare finds that Urban Water Management Plans are exempt from the California Environmental Quality Act pursuant to Water Code section 10652; and

NOW, THEREFORE, BE IT RESOLVED that the Council of the City of Tulare adopts the 2015 Urban Water Management Plan and hereby directs the City Clerk to transmit a copy of said plan and resolution to the State Department of Water Resources.

PASSED, APPROVED, AND ADOPTED this _____ day of _____ 2016.

President of the Council and Ex-Officio
Mayor of the City of Tulare

ATTEST:

STATE OF CALIFORNIA)
COUNTY OF TULARE) ss.
CITY OF TULARE)

I, Don Dorman, City Clerk of the City of Tulare, certify the foregoing is the full and true Resolution 16-__ passed and adopted by the Council of the City of Tulare at a regular meeting held on March 1, 2016, by the following vote:

Aye(s) _____

Noe(s) _____ Abstention(s) _____

Dated: DON DORMAN, CITY CLERK

By Roxanne Yoder, Chief Deputy

**CITY OF TULARE, CALIFORNIA
BOARD OF PUBLIC UTILITIES COMMISSIONERS
AGENDA ITEM TRANSMITTAL SHEET**

Submitting Department: Public Works / Solid Waste – Roll Off Division

For Board Meeting of: February 4, 2016

Documents Attached: Ordinance Resolution Staff Report Other None

AGENDA ITEM:

Award the purchase of two roll off refuse trucks with the Spartan style body to E.M. Tharp of Porterville, California in the amount of \$322,197.80 including tax and license.

IS PUBLIC HEARING REQUIRED: Yes No

BACKGROUND/EXPLANATION:

This item was brought before the Board for consideration on December 17, 2015. After review, the Board requested that the item was to be tabled until further review of the roll off division was considered. On January 21, 2016 the Board recommended that the City continue to provide Solid Waste Roll-Off service and to execute a Solid Waste rate study.

Bid No. 16-567 for two complete roll off refuse trucks were opened on November 5, 2015. The following bids were received:

<u>Company</u>	<u>Location</u>	<u>Body Type</u>	<u>Amount</u>
E. M. Tharp	Porterville	Spartan	\$322,197.80
Boerner Truck Center	Huntington Park	Spartan	\$324,082.96
E.M Tharp	Porterville	Galfab	\$329,850.74

All bids included diesel engines with conventional style chassis and body. In previous years the City purchased roll off trucks with a "cab-over" style, (Peterbilt model 320) cab and chassis trucks with LNG fuel engines. Staff has determined that the City can save approximately \$40,000 by changing to the conventional style cab and chassis (Peterbilt model 348), and \$60,000 by changing to diesel fuel engines. The Peterbilt model 348 has the same capabilities, suspension, a pusher tag axle and a slightly larger size engine. In addition to the savings, changing to the diesel fuel engines will contribute to lowering the cost of the longer haul to the Visalia landfill. E.M. Tharp bid Peterbilt trucks which we currently have in the refuse fleet and has a factory warranty station in Porterville. E. M. Tharp bid both the Spartan and Galfab truck bodies, and Boerner Truck Center bid the Spartan body with an International cab and chassis. The Spartan bodies met all bid specifications and their factory warranty station is in Visalia. The Galfab body had many exceptions to the body in the bid specifications and their factory warranty station is in Porterville.

Staff is recommending the award of bid to E.M. Tharp for the purchase of two roll off refuse trucks with the Peterbilt cab and chassis with Spartan bodies, due to the location of the warranty stations, desire to "standardize" the refuse fleet, meeting all of the bid specifications and as the apparent low bidder. The roll-off refuse trucks are included in the 2015/16 budget and the proposal is within the budgeted amount of \$600,000.

STAFF RECOMMENDATION:

Award the purchase of the two roll off refuse trucks with the Spartan body style to E.M. Tharp of Porterville, California in the amount of \$322,197.80

CITY ATTORNEY REVIEW/COMMENTS: Yes No N/A

IS ADDITIONAL (NON-BUDGETED) FUNDING REQUIRED: Yes No N/A

FUNDING SOURCE/ACCOUNT NUMBER:

Signed: Frank Rodriguez

Title: Solid Waste Manager

Date: February 4, 2016

City Manager Approval: DD

**CITY OF TULARE, CALIFORNIA
BOARD OF PUBLIC UTILITIES COMMISSIONERS
AGENDA ITEM TRANSMITTAL SHEET**

Submitting Department: Public Works

For Board Meeting of: February 4, 2016

Documents Attached: Ordinance Resolution Staff Report Other None

AGENDA ITEM:

Receive an update on the status of the Water and Wastewater Rate Study.

IS PUBLIC HEARING REQUIRED: Yes No

BACKGROUND/EXPLANATION:

The Board of Public Utilities awarded the contract for the Water and Wastewater Rate Study to Willdan Financial Services on December 17, 2015. Staff is working with Willdan to compile the financial and billing data necessary for both the water and sewer/wastewater funds. To help guide the process, a timeline has been created to keep the study moving in a timely manner as well as to make sure enough time is allocated to the BPU and City Council for adequate review of the proposed rates. Depending on the number of meetings needed for review of the rates, tentative dates are shown for three scenarios.

STAFF RECOMMENDATION:

Informational item only.

CITY ATTORNEY REVIEW/COMMENTS: Yes No

IS ADDITIONAL (NON-BUDGETED) FUNDING REQUIRED: Yes No

(If yes, please submit required budget appropriation request)

Signed: Trisha Whitfield

Title: Field Services Manager

Date: January 28, 2016

City Manager Approval: DD

**Water & Wastewater Rate Study
Timeline**

	Effective Date:		
	July 1	August 1	September 1
Meetings prior to approval of rate study and Prop. 218 notice	none	BPU - Feb 18, March 3 CC - Feb 16, March 1	BPU - Feb 18, March 3, March 15 CC - Feb 16, March 1, March 15
Begin 45 days (Prop. 218)	BPU - Feb 18 CC - Feb 16	BPU - March 17 CC - March 15	BPU - April 7 CC - April 5
BPU Public Hearing & Adopt Rates (gave 2 meetings in case they table)	April 7 <u>or</u> April 21	May 5 <u>or</u> May 19	June 2 <u>or</u> June 16
<u>or</u> Begin 45 days (Prop. 218)	BPU - March 3 CC - March 1	same as above	April 21
BPU Public Hearing & Adopt Rates	April 21	May 19	June 16
CC final review & approval (gave 2 meetings in case they table)	May 3 <u>or</u> May 17	June 7 <u>or</u> June 21	July 5 <u>or</u> July 19
final date for approvals (required 30 days before in effect)	May 31	June 30	July 31
Effective date of rates	July 1	August 1	September 1
New rate on first bill	August 1	September 1	October 1