

MINUTES OF THE BOARD OF PUBLIC WORKS
Tuesday, July 12, 2016

The Regular Meeting of the Board of Public Works was held on Tuesday, July 12, 2016 at 7:30 p.m. in the City Council Chambers located at 405 Jefferson Street, Washington, Missouri. The following were present/absent:

MEMBERS:

Chairman	Kurt Voss	Present
Member	John Vietmeier	Present
Member	Brad Mitchell	Present
Member	Mike Radetic	Present
Ex-officio Member		

OTHERS:

Council Representative	Jeff Mohesky	Absent
Council Representative	Josh Brinker	Present
Council Representative	Steve Sullentrup	Absent
Council Representative	Greg Skornia	Absent
Mayor	Sandy Lucy	Absent
City Administrator	James A. Briggs	Present
Public Works Director	Brian Boehmer	Present
Water/Wastewater Superintendent	Kevin Quaethem	Present
Water/Wastewater Secretary	Beverly Hoyt	Present
City Engineer	John Nilges	Absent
Assistant City Engineer	Andrea Lueken	Absent
Fire Chief/Emergency Management Director	Bill Halmich	Present

Originals and/or copies of agenda items of the meeting, including recorded votes are available on record in the office of the Public Works Department for one year. Video/DVD and audio tapes are kept only until the minutes have been approved for the meeting. DVD copies of this meeting are distributed to Board Members if requested.

The Board took a moment of silence in remembrance of our former Mayor Bernie Hillermann.

A motion was made by Mr. Vietmeier and seconded by Mr. Mitchell to approve the minutes from the regular June 14, 2016 meeting. The motion passed without dissent.

A motion was made by Mr. Mitchell to appoint Mr. Vietmeier secretary of the Board and seconded by Mr. Radetic. It is approved, Mr. Vietmeier will be the Secretary for the Board of Public Works and will sign all meeting minutes.

Wastewater

There is nothing to discuss on wastewater.

Water – Siemens Presentation by Mr. Wes Walker

This is a follow up from our last month meeting. The Board was given a paper copy of the Scope of Work with contract recaps on the guarantee by Siemens to go over and review.

There is not a lot of additional information that we haven't gone over. The revenue projects that were in the contract were based off of the 5/8" meters and the 2" meters, which both tested lower in accuracy in the existing system.

Contract Scope of Work

Consumption has been lower. The current base rate has a base and three tiers. The base rate captures a flat rate if you only use up to 1,500 kgals. As you go over the 1,500 kgals you get into Tier 1, Tier 2 and 3 as you use more water.

The original model water shows 59,003.05 kgals and actual water was 63,115.31 kgals. This means more people are using less water so they've moved from Tier 1, 2 and 3 to the base rate. As they use less they are charge a base flat fixed amount and there would be no additional revenue.

This could be that they're conserving water more. Usually if your water bill goes up you tend to pay more attention and try conserving water. As time goes on residents start converting back to their normal usage.

The fact that new houses are being built and older homes are being remodeled and are all changing over to the high efficiency washers, toilets and shower heads all these use less water. These are all really good things for the economy in saving water however not so good for the City in repaying back their loan.

Let's say about 20,000 kgals moved into the base rate from the additional tiers. We picked up in some due to accuracy issues with meters. Let's say one of the 5/8" meter that was less accurate, you put a new meter on and with better accuracy it would be put in tier 3 showing an increase in consumption.

There are less 5/8" meters in the system a shift in 5/8" is some of the negative results of less consumption. There's less net water running through the 5/8" meters. It's hard to determine whether it's because of the new meters or from the beginning of bad readings from the old meters.

Guaranteed Short Fall

The meter accuracy is at 98.5% during year 1-6 and 97.5% during years 7-15 down 1% in accuracy a year. They will pull and test meters for accuracy. There are potential causes for a failure, mechanical, corrosion, electrical and in some places even tampering occurs. This is just an illustrated example of some of the causes that cause the meters to register in accuracy.

Hypothetical - Water meter degradation curve, years' water meter is in the ground the efficiency to expect. Year 1 – 98% in Year 15 we would expect accuracy to be 80%. In year 10 we would pull the meters and they would be tested by a third party lab. If there are any problems, Siemens would step in and work with manufacturer to replace meters if they are not performing to guarantee standards.

Siemens recommends paying annually to Siemens to test and send to lab for 10 year testing. If the City were to cancel, guarantee goes away. Recommendation was made to keep guarantee in place, but use funds to do a water loss study. Amend the contract to say guarantee stays in place and not do the annual testing one year and put that money to a better source.

Donohue - Hydraulic Study

Demand projections broken down into commercial and residential in 2004 were using an average of 209 gallons per customer a day. In 2013 it dropped to 163 gallons per customer per day. The decline in daily consumption is a common trend for residential due to new construction and remodeling of homes and replacing appliances that are energy savers.

Maximum day demand is used for all models. We are working with 10 years' worth of data on how we determined lowest pressure (20 psi). the high ground elevations off Highway A, Clay Street, Lilac, Stone Crest and Washington Heights it's not a consistent low pressure but it does dip below 30 psi a few times during the day but normal psi is 39. MDNR would prefer to see 60 and 80 psi but that's not a logical read, there are too many elevation changes.

The hydraulic study is generally for the internal part of the operations of the department to know what we have got going on at any given time of the day. Like a snap shot we can go back five days and know what the psi was on every well. This would tell us the psi levels in areas where development might occur. Areas like Meadow Lake Farms, there have been a couple of scenarios done.

Wells #10, #11 and #5, if there were ever a power outage they would be able to maintain for about 3 days of normal usage. There's not a huge pressure fluxuation except by Well #10

where those see a fluxuation of 30 psi only when the well kicks on and off. For the most part the system is well connected.

The desired fire flow for residential customers is 1,000 gpm throughout and 1,250gpm for multi-family and 1,500 gpm for commercial.

Recommendations are as follows:

- Install a 12" diameter transmission main from the Well 10 area to provide a better hydraulic connection to the rest of system.
- Install emergency generator capabilities to Well #8
- Install a control valve at the Enduro Standpipe. Standpipe fills quickly when well is on.
- Install approximately 1,100 feet of 12-inch diameter transmission main from High Street to Anniston Dr. This will eliminate dead end mains and increase available fire flow above the 1,000 gpm for residential.
- Install a new 0.5 MG storage tank with overflow elevation 732 feet. This would help maintain during a power failure under the 2028 projected maximum day demand scenario.
- Install approximately 1,600 feet of 12-inch transmission main along Highway 100 from east of Highway KK to west of Highway KK to eliminate large diameter dead end main.

Donohue recommends implementing a program in the downtown area where there are a lot of 2-inch and 4-inch cast iron mains to start a program to prioritize replacement based on fire hydrants that have some mains that are as small as one inch needed to be focused on first. A program needs to be initiated to start a yearly replacement of some 6-inch mains and replace with PVC.

Public Works does have a line item in the budget that allows every year a replacement plan. A plan is in place this year to replace the 6-inch line on Terry Lane up from 5th to 3rd Street and on International from 5th to 3rd Street and set fire hydrants in the middle of each of those blocks. These are on 2-inch lines and no fire hydrants in the middle of the block.

The Hydraulic Study is a good tool for the City as it will be tied into the Engineering GIS System. This will be good for any new developments thinking moving in to the City. Training will be done this month with Keith and others in engineering.

Chlorination System

An invoice from Donohue in the amount of \$392.10 has been presented for final pay of the permanent chlorination. Public Works Staff recommends this for payment. All in favor aye, all oppose, none. It has been approved.

Next Scheduled Meeting Date:

The next scheduled meeting date is September 13, 2016.

Adjourn:

There being no further business the meeting adjourned on a motion by Mr. Vietmeier and second by Mr. Mitchell. All in favor aye, those oppose. We are adjourned.

Prepared by: _____
Beverly Hoyt
Water/Wastewater Secretary

Adopted and Approved By the Board of Public Works:

Date: _____ Signature: _____
Secretary

Memo

To: Board of Public Works
From: Kevin Quaethem
Date: 8/5/2016
Re: Approval for Slip Lining

Public Works is requesting the approval to proceed with slip lining of approximately 6,200 feet of sewer lines within the City.

Bids were received from the following:

Insituform	\$144,900.25
Visu-Sewer	\$212,764.32

Insituform is the low bidder and has worked for the City on previous projects and provides a great service.

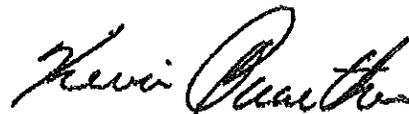


Memo

To: Board of Public Works
From: Kevin L. Quaethem, Water/Wastewater Superintendent
Date: 8/5/2016
Re: Purchase of Wastewater Truck and Equipment

I am requesting approval to proceed with the purchase of a 2016 Dodge 4500 Regular cab chassis from Lou Fusz of O'Fallon in the amount of \$45,460.00. This dealer is the state bid supplier and the only dealer in the area that can supply this vehicle. Along with this I am requesting approval of a Knapheide utility bed with side crane. This bed will be installed on the truck by Knapheide. Knapheide is the only supplier than can supply this type of bed.

There is \$90,000.00 in the budget for this vehicle; however there was an increase of \$360.00 since the budgeted number was acquired.





Budget Report Account Summary

For Fiscal: 2015-2016 Period Ending: 07/31/2016

	Original Total Budget	Current Total Budget	Period Activity	Fiscal Activity	Variance Favorable (Unfavorable)	Percent Remaining
Fund: 400 - WATER FUND						
Revenue						
400-35-000-450600	Penalties/Interest Chgs.	22,000.00	22,000.00	2,150.65	18,236.10	-3,763.90 17.11 %
400-35-000-450900	Revenues-All Other	15,000.00	15,000.00	2,857.75	24,783.57	9,783.57 165.22 %
400-35-000-453100	Water Sales	1,430,000.00	1,430,000.00	147,853.53	1,121,822.65	-308,177.35 21.55 %
400-35-000-453200	Water Meter Sales	10,000.00	10,000.00	1,165.17	11,822.06	1,822.06 118.22 %
400-35-000-453500	Connection Charges	15,000.00	15,000.00	250.00	6,350.00	-8,650.00 57.67 %
400-35-000-453550	Tap Charges	500.00	500.00	50.00	332.60	-167.40 33.48 %
400-35-000-453600	Labor & Equipment Charges	500.00	500.00	0.00	3,164.05	2,664.05 632.81 %
400-35-000-453700	Miscellaneous Materials Sold	10,000.00	10,000.00	281.92	4,800.64	-5,199.36 51.99 %
400-35-000-461200	Rent/Lease-Municipal Property/Bui	53,460.00	53,460.00	19,382.27	49,889.49	-3,570.51 6.68 %
400-35-000-480000	Investment Income	3,000.00	3,000.00	0.00	5,297.88	2,297.88 176.60 %
400-35-000-480100	Investment Income-notes	3,300.00	3,300.00	0.00	2,298.36	-1,001.64 30.35 %
	Revenue Total:	1,562,760.00	1,562,760.00	173,991.29	1,248,797.40	-313,962.60 20.09 %
Expense						
400-35-000-510100	Salaries/Wages-Regular	362,910.00	362,910.00	27,042.06	292,011.79	70,898.21 19.54 %
400-35-000-510150	Elected Board Officials Compensati	200.00	200.00	0.00	200.00	0.00 0.00 %
400-35-000-510200	Wages-Part Time/Permanent	5,100.00	5,100.00	0.00	0.00	5,100.00 100.00 %
400-35-000-510300	Salaries/Wages-Overtime	8,360.00	8,360.00	1,444.85	12,923.69	-4,563.69 -54.59 %
400-35-000-511100	FICA Taxes	28,810.00	28,810.00	2,056.86	22,195.36	6,614.64 22.96 %
400-35-000-511300	Health Insurance	92,110.00	92,110.00	7,332.62	69,954.81	22,155.19 24.05 %
400-35-000-511400	Dental Insurance	6,620.00	6,620.00	471.79	4,614.83	2,005.17 30.29 %
400-35-000-511600	Life Insurance	730.00	730.00	60.23	511.94	218.06 29.87 %
400-35-000-511700	LAGERS Retirement Plan	40,100.00	40,100.00	2,799.02	31,976.32	8,123.68 20.26 %
400-35-000-512601	Tuition Reimbursement	2,500.00	2,500.00	0.00	0.00	2,500.00 100.00 %
400-35-000-512605	Employee Incentive Program	300.00	300.00	0.00	193.18	106.82 35.61 %
400-35-000-512700	HRA Deductible	22,500.00	22,500.00	0.00	13,077.00	9,423.00 41.88 %
400-35-000-512701	HRA Administration Fee	490.00	490.00	0.00	0.00	490.00 100.00 %
400-35-000-520250	Administration, Finance & IT Depar	151,810.00	151,810.00	0.00	113,857.56	37,952.44 25.00 %
400-35-000-520300	Technical Services	10,400.00	10,400.00	9,115.15	22,884.18	-12,484.18 -120.04 %
400-35-000-520400	Other Contracted Services	80,000.00	80,000.00	2,248.94	47,528.93	32,471.07 40.59 %
400-35-000-521540	Uniform Cleaning Service	2,000.00	2,000.00	74.44	1,441.16	558.84 27.94 %
400-35-000-521560	Building Repair & Maintenance	10,000.00	10,000.00	0.00	261.00	9,739.00 97.39 %
400-35-000-521620	Equipment Repair & Maintenance	12,000.00	12,000.00	0.00	2,948.89	9,051.11 75.43 %
400-35-000-521630	Vehicle Repair & Maintenance	7,500.00	7,500.00	0.00	5,435.44	2,064.56 27.53 %
400-35-000-521635	Water System Repair & Maintenan	10,000.00	10,000.00	0.00	0.00	10,000.00 100.00 %
400-35-000-521636	Well Pump Repair & Maintenance	40,000.00	40,000.00	0.00	0.00	40,000.00 100.00 %
400-35-000-521640	Equipment Rental	1,000.00	1,000.00	6.47	956.46	43.54 4.35 %
400-35-000-522100	Advertising	200.00	200.00	0.00	0.00	200.00 100.00 %
400-35-000-522200	Property, Liability & Casualty Insur	34,610.00	34,610.00	6,533.09	26,513.00	8,097.00 23.39 %
400-35-000-522210	Self-Insurance Deductible	0.00	0.00	0.00	690.88	-690.88 0.00 %
400-35-000-522300	Printing/Duplicating	1,300.00	1,300.00	0.00	998.46	301.54 23.20 %
400-35-000-522400	Telephone	8,000.00	8,000.00	801.28	5,548.09	2,451.91 30.65 %
400-35-000-522410	Telephone-Alarm Control	4,500.00	4,500.00	425.34	3,828.06	671.94 14.93 %
400-35-000-522500	Training/Seminars	1,400.00	1,400.00	394.00	1,274.75	125.25 8.95 %
400-35-000-522600	Travel	1,200.00	1,200.00	53.39	718.15	481.85 40.15 %
400-35-000-522700	Professional Dues & Memberships	2,050.00	2,050.00	0.00	782.00	1,268.00 61.85 %
400-35-000-522900	Postage	12,000.00	12,000.00	799.92	9,818.44	2,181.56 18.18 %
400-35-000-522950	Credit Card Fees	4,400.00	4,400.00	0.00	4,201.25	198.75 4.52 %
400-35-000-530410	Parts-Vehicle	2,000.00	2,000.00	32.78	1,300.70	699.30 34.97 %
400-35-000-530415	Parts-Equipment	2,000.00	2,000.00	5.38	2,099.22	-99.22 -4.96 %
400-35-000-530420	Offices Supplies	1,200.00	1,200.00	0.00	398.25	801.75 66.81 %

Budget Report

For Fiscal: 2015-2016 Period Ending: 07/31/2016

	Original Total Budget	Current Total Budget	Period Activity	Fiscal Activity	Variance Favorable (Unfavorable)	Percent Remaining
<u>400-35-000-530500</u>	Asphalt/Rock/Cement	15,000.00	15,000.00	851.23	20,224.26	-5,224.26 -34.83 %
<u>400-35-000-530600</u>	Straw/Seeding/Plants	500.00	500.00	76.25	602.56	-102.56 -20.51 %
<u>400-35-000-530800</u>	General Supplies	7,000.00	7,000.00	988.46	24,227.16	-17,227.16 -246.10 %
<u>400-35-000-530900</u>	Employee Appreciation Cost	1,500.00	1,500.00	0.00	1,739.40	-239.40 -15.96 %
<u>400-35-000-531110</u>	Electricity	150,000.00	150,000.00	20,753.03	111,179.84	38,820.16 25.88 %
<u>400-35-000-531120</u>	Heating Fuel	1,500.00	1,500.00	8.18	990.85	509.15 33.94 %
<u>400-35-000-531300</u>	Gasoline & Oil	22,000.00	22,000.00	0.00	9,115.41	12,884.59 58.57 %
<u>400-35-000-532100</u>	Meters & Hydrants	25,000.00	25,000.00	0.00	18,811.63	6,188.37 24.75 %
<u>400-35-000-532200</u>	Pipe & Fittings	22,000.00	22,000.00	261.90	24,484.33	-2,484.33 -11.29 %
<u>400-35-000-534100</u>	Depreciation Expense	385,000.00	385,000.00	0.00	0.00	385,000.00 100.00 %
<u>400-35-000-534200</u>	Small Tools/Equipment/Furnishings	29,650.00	29,650.00	5,409.17	15,514.65	14,135.35 47.67 %
<u>400-35-000-540200</u>	Buildings	220,000.00	220,000.00	0.00	0.00	220,000.00 100.00 %
<u>400-35-000-541100</u>	Improvements Other Than Building	0.00	0.00	0.00	6,142.90	-6,142.90 0.00 %
<u>400-35-000-541110</u>	Water System Improvements	168,000.00	168,000.00	0.00	107,751.90	60,248.10 35.86 %
<u>400-35-000-542100</u>	Vehicles	31,000.00	31,000.00	0.00	0.00	31,000.00 100.00 %
<u>400-35-000-559100</u>	Bad Debts Expense	0.00	0.00	0.00	3,843.87	-3,843.87 0.00 %
<u>400-35-000-559200</u>	Bond/Note Principal	121,200.00	121,200.00	0.00	0.00	121,200.00 100.00 %
<u>400-35-090-559110</u>	Interest Expense	129,140.00	129,140.00	0.00	0.00	129,140.00 100.00 %
	Expense Total:	2,298,790.00	2,298,790.00	90,045.83	1,045,772.55	1,253,017.45 54.51 %
Fund: 400 - WATER FUND Surplus (Deficit):		-736,030.00	-736,030.00	83,945.46	203,024.85	939,054.85 127.58 %

Fund: 410 - SEWAGE TREATMENT FUND

Revenue						
<u>410-36-000-418500</u>	Sanitary Sewer District	13,000.00	13,000.00	460.00	14,792.70	1,792.70 113.79 %
<u>410-36-000-450600</u>	Penalties/Interest Charges	43,000.00	43,000.00	3,596.60	33,538.82	-9,461.18 22.00 %
<u>410-36-000-450900</u>	Revenues-All Other	5,000.00	5,000.00	132.39	4,434.65	-565.35 11.31 %
<u>410-36-000-453600</u>	Labor & Equipment Charges	100.00	100.00	0.00	105.75	5.75 105.75 %
<u>410-36-000-453700</u>	Miscellaneous Materials Sold	500.00	500.00	0.00	6.60	-493.40 98.68 %
<u>410-36-000-454100</u>	Sewer Service Charges	2,390,000.00	2,390,000.00	214,795.93	2,021,514.86	-368,485.14 15.42 %
<u>410-36-000-454125</u>	Surcharge Fees	15,000.00	15,000.00	1,110.03	21,366.18	6,366.18 142.44 %
<u>410-36-000-454150</u>	Leachate Disposal Charge	70,000.00	70,000.00	6,800.00	37,570.00	-32,430.00 46.33 %
<u>410-36-000-454200</u>	Sewer Connection Charges	25,000.00	25,000.00	680.00	20,313.20	-4,686.80 18.75 %
<u>410-36-000-480000</u>	Investment Income	2,000.00	2,000.00	0.00	3,229.72	1,229.72 161.49 %
<u>410-36-000-480200</u>	Investment Income.-Bond Acct.	460,000.00	460,000.00	0.00	217,866.78	-242,133.22 52.64 %
	Revenue Total:	3,023,600.00	3,023,600.00	227,574.95	2,374,739.26	-648,860.74 21.46 %

Expense						
<u>410-36-000-510100</u>	Salaries/Wages-Regular	72,350.00	72,350.00	8,262.80	91,444.45	-19,094.45 -26.39 %
<u>410-36-000-510200</u>	Wages-PartTime/Permanent	5,100.00	5,100.00	0.00	0.00	5,100.00 100.00 %
<u>410-36-000-510300</u>	Salaries/Wages-Overtime	5,150.00	5,150.00	361.65	4,569.31	580.69 11.28 %
<u>410-36-000-511100</u>	FICA Taxes	6,320.00	6,320.00	626.62	7,570.40	-1,250.40 -19.78 %
<u>410-36-000-511300</u>	Health Insurance	18,030.00	18,030.00	1,328.76	24,208.38	-6,178.38 -34.27 %
<u>410-36-000-511400</u>	Dental Insurance	1,200.00	1,200.00	116.67	1,730.71	-530.71 -44.23 %
<u>410-36-000-511600</u>	Life Insurance	150.00	150.00	14.71	188.80	-38.80 -25.87 %
<u>410-36-000-511700</u>	LAGERS Retirement Plan	8,810.00	8,810.00	789.43	10,855.20	-2,045.20 -23.21 %
<u>410-36-000-512605</u>	Employee Incentive Program	400.00	400.00	0.00	48.06	351.94 87.99 %
<u>410-36-000-512700</u>	HRA Deductible	6,000.00	6,000.00	0.00	1,402.88	4,597.12 76.62 %
<u>410-36-000-512701</u>	HRA Administration Fee	110.00	110.00	0.00	0.00	110.00 100.00 %
<u>410-36-000-520250</u>	Administration, Finance & IT Depar	68,125.00	68,125.00	0.00	51,093.81	17,031.19 25.00 %
<u>410-36-000-520300</u>	Technical Services	600.00	600.00	50.05	615.45	-15.45 -2.58 %
<u>410-36-000-520400</u>	Other Contracted Services	11,000.00	11,000.00	448.32	2,846.51	8,153.49 74.12 %
<u>410-36-000-520450</u>	Public Works Staff Services	0.00	0.00	0.00	9,035.88	-9,035.88 0.00 %
<u>410-36-000-521300</u>	Tipping Fee - City of Washington	300.00	300.00	0.00	0.00	300.00 100.00 %
<u>410-36-000-521540</u>	Uniform Cleaning Service	1,500.00	1,500.00	21.08	502.33	997.67 66.51 %
<u>410-36-000-521560</u>	Building Repair & Maintenance	1,000.00	1,000.00	0.00	0.00	1,000.00 100.00 %
<u>410-36-000-521620</u>	Equipment Repair & Maintenance	30,000.00	30,000.00	0.00	7,624.90	22,375.10 74.58 %
<u>410-36-000-521630</u>	Vehicle Repair & Maintenance	2,500.00	2,500.00	0.00	1,976.23	523.77 20.95 %
<u>410-36-000-521640</u>	Equipment Rental	500.00	500.00	6.47	256.46	243.54 48.71 %
<u>410-36-000-522200</u>	Property, Liability & Casualty Insur	15,560.00	15,560.00	3,757.17	14,139.59	1,420.41 9.13 %

Budget Report

For Fiscal: 2015-2016 Period Ending: 07/31/2016

		Original Total Budget	Current Total Budget	Period Activity	Fiscal Activity	Variance Favorable (Unfavorable)	Percent Remaining
<u>410-36-000-522210</u>	Self-Insurance Deductible	500.00	500.00	0.00	368.00	132.00	26.40 %
<u>410-36-000-522300</u>	Printing/Duplicating	400.00	400.00	0.00	272.69	127.31	31.83 %
<u>410-36-000-522400</u>	Telephone	3,000.00	3,000.00	280.54	2,181.44	818.56	27.29 %
<u>410-36-000-522410</u>	Telephone-Alarm Control	3,500.00	3,500.00	155.25	1,320.61	2,179.39	62.27 %
<u>410-36-000-522500</u>	Training/Seminars	1,000.00	1,000.00	0.00	439.49	560.51	56.05 %
<u>410-36-000-522600</u>	Travel	500.00	500.00	53.38	376.53	123.47	24.69 %
<u>410-36-000-522700</u>	Professional Dues & Memberships	500.00	500.00	0.00	591.00	-91.00	-18.20 %
<u>410-36-000-522900</u>	Postage	6,000.00	6,000.00	566.95	4,499.18	1,500.82	25.01 %
<u>410-36-000-522950</u>	Credit Card Fees	4,400.00	4,400.00	0.00	4,120.02	279.98	6.36 %
<u>410-36-000-530200</u>	Lab Supplies	50.00	50.00	0.00	0.00	50.00	100.00 %
<u>410-36-000-530410</u>	Parts-Vehicle	600.00	600.00	0.00	139.57	460.43	76.74 %
<u>410-36-000-530415</u>	Parts-Equipment	10,000.00	10,000.00	30.24	12,569.10	-2,569.10	-25.69 %
<u>410-36-000-530420</u>	Offices Supplies	500.00	500.00	0.00	293.05	206.95	41.39 %
<u>410-36-000-530500</u>	Asphalt/Rock/Cement	2,500.00	2,500.00	0.00	3,719.85	-1,219.85	-48.79 %
<u>410-36-000-530600</u>	Straw/Seeding/Plants	250.00	250.00	0.00	191.97	58.03	23.21 %
<u>410-36-000-530800</u>	General Supplies	2,300.00	2,300.00	82.69	2,195.81	104.19	4.53 %
<u>410-36-000-530900</u>	Employee Appreciation Cost	200.00	200.00	0.00	49.71	150.29	75.15 %
<u>410-36-000-531110</u>	Electricity	44,000.00	44,000.00	5,491.66	33,583.76	10,416.24	23.67 %
<u>410-36-000-531120</u>	Heating Fuel	10,500.00	10,500.00	8.18	990.80	9,509.20	90.56 %
<u>410-36-000-531300</u>	Gasoline & Oil	7,500.00	7,500.00	0.00	4,468.94	3,031.06	40.41 %
<u>410-36-000-532200</u>	Pipe & Fittings	2,500.00	2,500.00	0.00	1,615.06	884.94	35.40 %
<u>410-36-000-532270</u>	Manhole Replacement Program	11,000.00	11,000.00	1,018.88	18,426.95	-7,426.95	-67.52 %
<u>410-36-000-533100</u>	Chemicals	3,000.00	3,000.00	0.00	0.00	3,000.00	100.00 %
<u>410-36-000-534100</u>	Depreciation Expense	310,000.00	310,000.00	0.00	0.00	310,000.00	100.00 %
<u>410-36-000-534200</u>	SmallTools/Equipment/Furnishings	13,320.00	13,320.00	0.00	2,499.74	10,820.26	81.23 %
<u>410-36-000-541100</u>	Improvements Other Than Building	140,000.00	140,000.00	0.00	0.00	140,000.00	100.00 %
<u>410-36-000-541120</u>	Sanitary Sewer System Improve	150,000.00	150,000.00	0.00	14,249.65	135,750.35	90.50 %
<u>410-36-000-542100</u>	Vehicles	90,000.00	90,000.00	0.00	0.00	90,000.00	100.00 %
<u>410-36-000-542200</u>	Machinery & Equipment	10,000.00	10,000.00	0.00	0.00	10,000.00	100.00 %
<u>410-36-000-559100</u>	Bad Debts Expense	0.00	0.00	0.00	5,942.45	-5,942.45	0.00 %
<u>410-36-090-559110</u>	Interest Expense	655,800.00	655,800.00	0.00	332,534.38	323,265.62	49.29 %
<u>410-36-090-559120</u>	Agent Fees	83,000.00	83,000.00	0.00	77,692.75	5,307.25	6.39 %
<u>410-36-090-559130</u>	Amortization of Bond Discount/Pre	-21,340.00	-21,340.00	0.00	0.00	-21,340.00	100.00 %
<u>410-36-090-559200</u>	Bond/Note Principal	930,000.00	930,000.00	0.00	930,000.00	0.00	0.00 %
<u>410-36-361-510100</u>	Salaries/Wages-Regular	310,550.00	310,550.00	16,901.22	175,162.66	135,387.34	43.60 %
<u>410-36-361-510300</u>	Salaries/Wages-Overtime	2,500.00	2,500.00	487.31	3,766.48	-1,266.48	-50.66 %
<u>410-36-361-511100</u>	FICA Taxes	23,950.00	23,950.00	1,248.69	13,596.72	10,353.28	43.23 %
<u>410-36-361-511300</u>	Health Insurance	68,340.00	68,340.00	4,081.25	39,081.57	29,258.43	42.81 %
<u>410-36-361-511400</u>	Dental Insurance	4,530.00	4,530.00	252.17	2,471.76	2,058.24	45.44 %
<u>410-36-361-511600</u>	Life Insurance	580.00	580.00	34.04	353.89	226.11	38.98 %
<u>410-36-361-511700</u>	LAGERS Retirement Plan	33,370.00	33,370.00	1,742.33	19,833.40	13,536.60	40.57 %
<u>410-36-361-512605</u>	Employee Incentive Program	200.00	200.00	0.00	96.26	103.74	51.87 %
<u>410-36-361-512700</u>	HRA Deductible	9,000.00	9,000.00	0.00	6,657.04	2,342.96	26.03 %
<u>410-36-361-512701</u>	HRA Administration Fee	220.00	220.00	0.00	0.00	220.00	100.00 %
<u>410-36-361-520250</u>	Administration, Finance & IT Depar	68,125.00	68,125.00	0.00	51,093.81	17,031.19	25.00 %
<u>410-36-361-520300</u>	Technical Services	20,200.00	20,200.00	394.20	7,245.00	12,955.00	64.13 %
<u>410-36-361-520400</u>	Other Contracted Services	16,350.00	16,350.00	476.58	4,446.85	11,903.15	72.80 %
<u>410-36-361-520450</u>	Public Works Staff Services	0.00	0.00	0.00	9,035.87	-9,035.87	0.00 %
<u>410-36-361-521300</u>	Tipping Fee - City of Washington	1,200.00	1,200.00	0.00	1,128.94	71.06	5.92 %
<u>410-36-361-521540</u>	Uniform Cleaning Service	500.00	500.00	49.16	932.94	-432.94	-86.59 %
<u>410-36-361-521560</u>	Building Repair & Maintenance	2,000.00	2,000.00	0.00	0.00	2,000.00	100.00 %
<u>410-36-361-521620</u>	Equipment Repair & Maintenance	108,100.00	108,100.00	2,236.15	14,393.42	93,706.58	86.69 %
<u>410-36-361-521630</u>	Vehicle Repair & Maintenance	3,000.00	3,000.00	0.00	4,421.53	-1,421.53	-47.38 %
<u>410-36-361-521640</u>	Equipment Rental	500.00	500.00	0.00	0.00	500.00	100.00 %
<u>410-36-361-522200</u>	Property, Liability & Casualty Insur	21,670.00	21,670.00	4,414.48	16,047.03	5,622.97	25.95 %
<u>410-36-361-522210</u>	Self-Insurance Deductible	500.00	500.00	0.00	0.00	500.00	100.00 %
<u>410-36-361-522300</u>	Printing/Duplicating	1,050.00	1,050.00	0.00	892.44	157.56	15.01 %
<u>410-36-361-522400</u>	Telephone	6,500.00	6,500.00	724.96	6,216.43	283.57	4.36 %

Budget Report

For Fiscal: 2015-2016 Period Ending: 07/31/2016

		Original Total Budget	Current Total Budget	Period Activity	Fiscal Activity	Variance Favorable (Unfavorable)	Percent Remaining
<u>410-36-361-522410</u>	Telephone-Alarm Control	1,000.00	1,000.00	0.00	0.00	1,000.00	100.00 %
<u>410-36-361-522500</u>	Training/Seminars	800.00	800.00	0.00	0.00	800.00	100.00 %
<u>410-36-361-522600</u>	Travel	700.00	700.00	0.00	0.00	700.00	100.00 %
<u>410-36-361-522700</u>	Professional Dues & Memberships	700.00	700.00	0.00	505.00	195.00	27.86 %
<u>410-36-361-522900</u>	Postage	4,500.00	4,500.00	400.08	4,374.41	125.59	2.79 %
<u>410-36-361-530200</u>	Lab Supplies	13,600.00	13,600.00	82.98	913.11	12,686.89	93.29 %
<u>410-36-361-530410</u>	Parts-Vehicle	1,000.00	1,000.00	0.00	423.39	576.61	57.66 %
<u>410-36-361-530415</u>	Parts-Equipment	28,600.00	28,600.00	6,863.30	13,085.80	15,514.20	54.25 %
<u>410-36-361-530420</u>	Offices Supplies	500.00	500.00	0.00	128.00	372.00	74.40 %
<u>410-36-361-530500</u>	Asphalt/Rock/Cement	1,000.00	1,000.00	0.00	0.00	1,000.00	100.00 %
<u>410-36-361-530600</u>	Straw/Seeding/Plants	250.00	250.00	0.00	0.00	250.00	100.00 %
<u>410-36-361-530800</u>	General Supplies	4,000.00	4,000.00	225.35	3,840.39	159.61	3.99 %
<u>410-36-361-531110</u>	Electricity	170,000.00	170,000.00	17,217.06	128,718.98	41,281.02	24.28 %
<u>410-36-361-531120</u>	Heating Fuel	13,000.00	13,000.00	149.32	9,917.78	3,082.22	23.71 %
<u>410-36-361-531300</u>	Gasoline & Oil	3,000.00	3,000.00	0.00	1,994.12	1,005.88	33.53 %
<u>410-36-361-532200</u>	Pipe & Fittings	1,200.00	1,200.00	0.00	1,753.50	-553.50	-46.13 %
<u>410-36-361-533100</u>	Chemicals	17,300.00	17,300.00	0.00	11,815.08	5,484.92	31.70 %
<u>410-36-361-534100</u>	Depreciation Expense	890,000.00	890,000.00	0.00	0.00	890,000.00	100.00 %
<u>410-36-361-534200</u>	Small Tools/Equipment/Furnishings	14,280.00	14,280.00	0.00	4,584.92	9,695.08	67.89 %
<u>410-99-361-569250</u>	Transfer out- Vehicle & Equipment	201,500.00	201,500.00	0.00	2,275.00	199,225.00	98.87 %
	Expense Total:	4,800,050.00	4,800,050.00	81,452.13	2,246,645.37	2,553,404.63	53.20 %
	Fund: 410 - SEWAGE TREATMENT FUND Surplus (Deficit):	-1,776,450.00	-1,776,450.00	146,122.82	128,093.89	1,904,543.89	107.21 %
	Report Surplus (Deficit):	-2,512,480.00	-2,512,480.00	230,068.28	331,118.74	2,843,598.74	113.18 %

Group Summary

Account Type	Original Total Budget	Current Total Budget	Period Activity	Fiscal Activity	Variance Favorable (Unfavorable)	Percent Remaining
Fund: 400 - WATER FUND						
Revenue	1,562,760.00	1,562,760.00	173,991.29	1,248,797.40	-313,962.60	20.09 %
Expense	2,298,790.00	2,298,790.00	90,045.83	1,045,772.55	1,253,017.45	54.51 %
Fund: 400 - WATER FUND Surplus (Deficit):	-736,030.00	-736,030.00	83,945.46	203,024.85	939,054.85	127.58 %
Fund: 410 - SEWAGE TREATMENT FUND						
Revenue	3,023,600.00	3,023,600.00	227,574.95	2,374,739.26	-648,860.74	21.46 %
Expense	4,800,050.00	4,800,050.00	81,452.13	2,246,645.37	2,553,404.63	53.20 %
Fund: 410 - SEWAGE TREATMENT FUND Surplus (Deficit):	-1,776,450.00	-1,776,450.00	146,122.82	128,093.89	1,904,543.89	107.21 %
Report Surplus (Deficit):	-2,512,480.00	-2,512,480.00	230,068.28	331,118.74	2,843,598.74	113.18 %

Fund Summary

Fund	Original Total Budget	Current Total Budget	Period Activity	Fiscal Activity	Variance Favorable (Unfavorable)
400 - WATER FUND	-736,030.00	-736,030.00	83,945.46	203,024.85	939,054.85
410 - SEWAGE TREATMENT FUND	-1,776,450.00	-1,776,450.00	146,122.82	128,093.89	1,904,543.89
Report Surplus (Deficit):	-2,512,480.00	-2,512,480.00	230,068.28	331,118.74	2,843,598.74

Memorandum

TO: James A. Briggs, City Administrator
 Brian N. Boehmer, Public Works Director
 Board of Public Works

FROM: Kevin Quaethem, Water and Wastewater Superintendent

DATE: August 5, 2016

RE: Work Performed by the Water and Wastewater Departments

STATUS OF MAJOR CONTRACTS – JULY 2016

PROJECT	VENDOR	CONTRACT AMOUNT	PREVIOUSLY APPROVED	CURRENTLY APPROVED	BALANCE
Hydraulic Study	Donohue	\$ 58,000.00			\$11,600.00
WWTP Electrical Modifications	Electric Unlimited	\$274,300.00			\$23,100.00
Permanent Chlorination System Design	Donohue	\$ 6,535.00	\$ 392.10		\$ -0-

JULY 2016

Water Pumped July 2016..... 74,088,262 2.39 mgd
 Wastewater Effluent Flow July 2016..... 69,760,000 2.25 mgd
 Missouri One Call Locate messages received for locates.....159
 Meters Issued as new.4
 Meters Issued as replacements.....0
 Meters Issued as new for irrigation systems0
 Water breaks repaired.0
 Sewer Routines56
 Delinquent Accounts actually shut off in July 2016.....67

WATER DEPARTMENT FIELD WORK PERFORMED – JULY 2016

- | | |
|--|---|
| <ol style="list-style-type: none"> 1. Shop Maintenance 2. Meter/Swapping/Repair 3. Repair/Replace/Number Hydrants 4. Check Wells/Lift Stations/Heaters 5. Missouri One Call Locates 6. Hydrant Flushing/Painting 7. Dig up/Repair Curb Stops 8. Water Samples 9. Repair Water Break @ 616 Elm St. 10. Water Break @ Jefferson 11. Water Break @ 218 Valley Dr. 12. Water Break @ Dawn Valley Dr. | <ol style="list-style-type: none"> 13. Repair of Service Line @ Stafford & 5th 14. Repair Curb Stop @ 1983 Marquart 15. Repair Curb Stop @ 344 Lake View 16. Raise Hydrant @ 1813 Anniston Dr. 17. Call out – Service Line Leak @ 1135 W. Main 18. Hauled Rock 19. Valve Box repair on Steutermann 20. Tap on Cedar between 5th & Freemont 21. Installed Vents in all Well Buildings |
|--|---|

WASTEWATER DEPARTMENT FIELD WORK PERFORMED -- JULY 2016

1. Sewer Routines
2. Daily lab work and routines.
3. Cleaned belt press.
4. Clean Process Filters
5. Run belt press.
6. Cleaned bar screen.
7. Sprayed all Lift Stations
8. Checked Drain & temp gauges
9. Cleaned polymer barrels
10. Sewer call out @ Jefferson Bridge
11. High Water Alarms @ WLLS
11. Service Call 803 W. 9th
12. Mowed Lots around Pumps
13. Elevator Inspections @ Lift Stations
14. Elevator Removed @ WLLS
15. Camera Various Sewer Lines
16. Sprayed for Weeds
17. Sampling for DMR-QA

ROUTINE FIELD WORK

1. Read meters and performed rereads as necessary.
2. Performed read-outs on meters (persons moving in and out)
3. Installed reading device receptacles on houses where new/replacement meters were installed.
4. Issued meters and materials to contractors, owners, etc.
5. Took necessary water samples of the distribution system.
6. Flushed hydrants -- scheduled routine flushing.
7. Wastewater lab work.
8. Root-sawed and/or cleaned sewer lines where necessary.
9. Hauled sludge.
10. Televised sewer lines.
11. Performed river gauge measurement.
12. Performed sewer and water service main inspections.
13. Located water and sewer lines.
14. Monitored construction of water and sewer mains in new developments.
15. Responded to service call requests.
16. Invoiced for meters, materials and other charges as necessary.
17. Performed maintenance and repairs on buildings, vehicles, and equipment.

Disinfectant Monitoring

PWS:	The City of Washington - Well # 3			
PWSID:	.MO6010838			
County:	Franklin			
Month:	July			
Date	Time	Free Cl (mg/l)	Total Cl (mg/l)	Sampler
1	8:02	0.75		AG
2	8:20	0.61		CDC
3	8:10	0.7		CDC
4	6:30	0.54		CDC
5	8:20	0.53		KD
6	8:00	0.51		KD
7	8:50	0.58		BK
8	8:56	0.53		KD
9	8:05	0.58		BK
10	7:18	0.59		BK
11	9:44	0.61		KD
12	8:10	0.64		BK
13	9:00	0.69		BK
14	9:17	0.62		RW
15	11:18	0.69		KD
16	8:02	0.82		AG
17	8:16	0.93		AG
18	8:42	0.99		KD
19	9:15	0.98		BK
20	9:34	0.85		KD
21	6:20	0.81		RW
22	6:15	0.69		BK
23	6:20	1		R4W
24	6:16	0.5		RW
25	6:13	0.51		RW
26	6:18	0.5		RW
27	6:47	0.5		CDC
28	7:15	0.5		CDC
29	6:20	0.5		BK
30	6:56	0.55		CA
31	6:50	0.53		CA

Notes:

Disinfectant Monitoring

PWS:	The City of Washington - Well # 4			
PWSID:	.MO6010838			
County:	Franklin			
Month:	July			
Date	Time	Free Cl (mg/l)	Total Cl (mg/l)	Sampler
1	7:49	0.58		AG
2	7:05	0.5		CDC
3	6:35	0.55		CDC
4	7:40	0.55		CDC
5	11:11	0.51		CDC
6	9:42	0.71		KD
7	8:20	0.68		BK
8	8:26	0.72		KD
9	7:40	0.72		BK
10	7:00	0.69		BK
11	8:41	0.65		KD
12	8:00	0.55		BK
13	8:21	0.62		RW
14	8:20	0.61		RW
15	10:59	0.52		KD
16	7:48	0.52		AG
17	7:55	0.51		AG
18	8:11	0.51		KD
19	8:59	0.51		KD
20	6:50	0.58		AG
21	6:49	0.52		AG
22	6:49	0.58		CA
23	6:28	0.61		RW
24	5:29	54		RW
25	8:53	0.5		AG
26	6:55	0.55		CDC
27	6:35	0.58		CDC
28	6:55	0.56		CDC
29	7:00	0.57		CDC
30	6:51	1.51		CA
31	6:43	0.56		CA

Notes:

Disinfectant Monitoring

PWS:	The City of Washington - Well # 5			
PWSID:	.MO6010838			
County:	Franklin			
Month:	July			
Date	Time	Free Cl (mg/l)	Total Cl (mg/l)	Sampler
1	8:32	0.68		AG
2	9:00	1.05		CDC
3	7:30	0.65		CDC
4	7:05	0.6		CDC
5	11:45	0.62		CDC
6	8:44	0.6		KD
7	9:10	0.59		BK
8	9:30	0.51		KD
9	8:20	0.56		BK
10	7:30	0.51		BK
11	10:45	0.52		KD
12	8:20	0.57		BK
13	8:55	0.5		RW
14	9:07	0.5		RW
15	8:11	0.5		AG
16	8:24	0.56		AG
17	9:25	0.52		BK
18	10:22	0.51		KD
19	6:52	0.7		RW
20	6:21	0.7		CA
21	6:10	0.67		RW
22	6:00	0.52		RW
23	5:48	0.65		RW
24	6:10	0.61		AG
25	6:15	0.61		AG
26	7:42	0.55		CDC
27	8:00	0.61		CDC
28	8:00	0.58		CDC
29	6:39	0.57		CA
30	7:40	0.56		CA
31	7:40	0.54		CA

Notes:

Disinfectant Monitoring

PWS:	The City of Washington - Well # 6			
PWSID:	.MO6010838			
County:	Franklin			
Month:	July			
Date	Time	Free Cl (mg/l)	Total Cl (mg/l)	Sampler
1	7:22	0.62		AG
2	6:30	0.69		CDC
3	5:55	0.59		CDC
4	8:10	0.57		CDC
5	10:45	0.58	1.26	CDC
6	10:06	0.74		KD
7	8:00	0.73		BK
8	8:03	0.68		KD
9	7:20	0.64		BK
10	6:35	0.68		BK
11	8:03	0.57		KD
12	7:40	0.54		BK
13	8:10	0.57	0.41	BK
14	8:11	0.59		RW
15	9:57	0.58		KD
16	7:30	0.62		AG
17	7:30	0.55		AG
18	7:35	0.79		KED
19	8:23	0.68	1.1	KD
20	6:37	1.04		AG
21	6:31	0.95		AG
22	6:37	0.82		BK
23	5:03	1.03		RW
24	4:54	1.01		RW
25	8:08	1.38		AG
26	6:25	1.63		CDC
27	6:14	0.69		CDC
28	6:23	Well out of Service		CDC
29	6:25	Well out of Service		CDC
30	6:30	Well out of Service		CA
31	6:20	Well out of Service		CA

Notes:

Disinfectant Monitoring

PWS:	The City of Washington - Well # 7			
PWSID:	.MO6010838			
County:	Franklin			
Month:	July			
Date	Time	Free Cl (mg/l)	Total Cl (mg/l)	Sampler
1	8:11	0.73		AG
2	8:30	2		CDC
3	7:05	0.81		CDC
4	6:40	0.76		CDC
5	11:25	0.66	1.04	CDC
6	8:24	0.58		KD
7	9:23	0.55		BK
8	9:06	0.53		KD
9	9:15	0.5		BK
10	7:50	0.5		BK
11	10:00	0.54		KD
12	8:30	0.57		BK
13	9:20	0.56	1.21	BK
14	5:35	0.57		RW
15	11:35	0.55		KD
16	8:48	0.52		AG
17	8:52	0.52		AG
18	9:40	0.51		BK
19	9:56	0.53	0.75	KD
20	6:30	0.68		RW
21	6:30	0.68		RW
22	6:35	0.54		BK
23	6:28	0.86		RW
24	5:58	0.79		RW
25	6:25	0.62		AG
26	7:15	0.7		CDC
27	6:52	0.78		CDC
28	7:40	0.8		CDC
29	6:50	0.52		BK
30	7:06	0.61		CA
31	7:19	0.5		CA

Notes:

Disinfectant Monitoring

PWS:	The City of Washington - Well # 8			
PWSID:	.MO6010838			
County:	Franklin			
Month:	July			
Date	Time	Free Cl (mg/l)	Total Cl (mg/l)	Sampler
1	7:22	0.9		AG
2	6:30	0.96		CDC
3	5:55	0.69		CDC
4	8:10	0.77		CDC
5	10:45	0.52	0.63	CDC
6	10:06	0.73		KD
7	8:00	0.66		BK
8	8:03	0.81		KD
9	7:20	0.71		BK
10	6:35	0.7		BK
11	8:03	0.6		KD
12	7:40	0.56		BK
13	8;10	0.62	1.2	BK
14	8:11	0.63		RW
15	9:57	0.59		KD
16	7:30	0.51		AG
17	7:30	0.5		AG
18	7:35	0.53		KD
19	8:23	0.61	0.79	KD
20	6:37	0.69		AG
21	6:31	0.68		AG
22	6:37	0.78		CA
23	5:03	0.54		RW
24	4:54	0.66		RW
25	8:08	0.59		AG
26	6:25	0.52		CDC
27	6:14	0.73		CDC
28	6:23	0.65		CDC
29	6:25	0.65		CDC
30	6:30	0.52		CA
31	6:20	0.64		CA

Notes:

Disinfectant Monitoring

PWS:	The City of Washington - Well # 9			
PWSID:	.MO6010838			
County:	Franklin			
Month:	July			
Date	Time	Free Cl (mg/l)	Total Cl (mg/l)	Sampler
1	7:13	0.67		AG
2	6:14	0.53		CDC
3	5:40	0.50		CDC
4	8:50	0.52		CDC
5	10:20	0.52	1.05	CDC
6	9:20	0.65		KD
7	7:40	0.82		BK
8	7:57	0.66		KD
9	6:50	0.53		BK
10	6:10	0.61		BK
11	7:55	0.7		KD
12	7:15	0.51		BK
13	7:43	0.5	0.77	RW
14	7:49	0.51		RW
15	7:44	0.56		KD
16	7:00	0.57		AG
17	7:05	0.5		AG
18	9:00	0.5		BK
19	8:16	0.5	0.92	KD
20	6:20	0.56		AG
21	6:06	0.5		AG
22	6:07	0.54		CA
23	4:58	0.56		RW
24	4:46	0.67		RW
25	7:54	0.5		AG
26	6:15	0.57		CDC
27	6:06	0.5		RW
28	6:12	0.51		CDC
29	6:15	1.85		CDC
30	5:24	0.68		CA
31	5:33	0.77		CA

Notes:

Disinfectant Monitoring

PWS:	The City of Washington - Well # 10			
PWSID:	.MO6010838			
County:	Franklin			
Month:	July			
Date	Time	Free Cl (mg/l)	Total Cl (mg/l)	Sampler
1	7:32	0.7		AG
2	6:47	1.29		CDC
3	6:06	1.39		CDC
4	8:35	1.38		CDC
5	10:55	0.73	0.61	CDC
6	10:18	0.69		KD
7	7:50	1.37		BK
8	8:11	0.7		KD
9	7:05	0.66		BK
10	6:20	1.24		BK
11	8:19	0.65		KD
12	7:30	2.28		BK
13	8:00	0.55	1.1	BK
14	7:54	0.67		RW
15	8:29	0.61		KD
16	7:17	0.56		AG
17	7:15	0.61		AG
18	7:54	0.64		KD
19	8:40	0.64	0.76	KD
20	6:28	1.46		AG
21	6:23	0.84		AG
22	6:25	0.82		BK
23	5:12	0.82		RW
24	5:06	0.65		RW
25	8:22	1.44		AG
26	6:35	0.75		CDC
27	6:21	0.72		RW
28	6:34	0.74		CDC
29	6:40	0.69		CDC
30	6:11	0.71		CA
31	6:00	0.69		CA

Notes:

Disinfectant Monitoring

PWS:	The City of Washington - Well # 11			
PWSID:	.MO6010838			
County:	Franklin			
Month:	July			
Date	Time	Free Cl (mg/l)	Total Cl (mg/l)	Sampler
1	8:20	2.96		AG
2	8:45	0.88		CDC
3	6:50	2.67		CDC
4	6:50	0.85		CDC
5	11:35	0.85		CDC
6	8:33	0.91		KD
7	9:30	0.89		BK
8	9:15	0.86		KD
9	9:25	1.24		BK
10	8:02	0.8		BK
11	10:28	0.85		KD
12	8:50	0.88		BK
13	10:00	0.86		RW
14	10:05	0.75		RW
15	8:30	0.83		AG
16	8:36	0.8		AG
17	10:00	0.82		BK
18	10:37	0.8		KD
19	6:43	0.95		RW
20	6:44	0.98		CA
21	6:42	0.93		RW
22	6:37	0.69		RW
23	6:30	0.9		RW
24	6:34	0.91		RW
25	8:40	0.85		KQ
26	7:27	0.95		CDC
27	7:09	0.82		CDC
28	7:55	0.95		CDC
29	7:38	0.9		CA
30	7:30	0.85		CA
31	7:30	1		CA

Notes: