

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

The Regular Meeting of the Board of Public Works was held on Tuesday, April 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	Absent
Member	Rob Vossbrink	Present
Member	John Vietmeier	Present
Member	Brad Mitchell	Present
Ex-officio Member	Mike Radetic	Present

OTHERS:

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

Originals and/or copies of agenda items of the meeting, including recorded votes are available on record in the office of the Public Works Secretary 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.

A motion was made by Mr. Vietmeier and seconded by Mr. Mitchell to approve the minutes from the regular March 8, 2016 meeting. The motion passed without dissent.

Wastewater

Electrical Modifications at the Treatment Plant – They are 99% done. A walk through will be done next week and by this time next month we should be completed and have a final. We will be explosion proof and also monitoring for hydrogen sulfide gases.

Water - Permanent Chlorination Installation

This will be kept on the Agenda until we get the permanent permit signed off on by Missouri Department of Natural Resources (MDNR). We are still working off the temporary disinfection order at this time. We will be adding another report to the packet next month, the same report we send MDNR showing the daily chlorine residuals at each well. This will be for informational purposes only.

Connection to Public Water Line

The connection to the public line ordinance modification is being looked at by the City Attorney. We are hoping to have something to bring to the Board next month.

Other:

We are still working with Seimens. They have requested more information from billing and it has been sent to them. We are now just waiting for their calculations. This is their second request for information. Once this info has been received back we will get with the Board on their findings. We have been working with them since 2013 they do have the information and they are analyzing everything. The Board would like to have a representative from Siemens at the next Board meeting to discuss their findings. An analysis was supposed to be done after the first year, May of 2014.

Old Business:

Hydraulic Study – I will be meeting with Donohue & Associates on Friday of this week and we will be going over some of the reporting. The following week we hope to be installing the software and have our training. By the next month we hope to have reports we can show the Board on what it can do. This should show our current system and where our deficiencies are and the current system on what we would have to do to improve extending out the system.

Open Discussion:

The Board would like to see a report on Siemens that would show us what has been brought in water revenue and what was projected in the old system. If you look at year to year the growth is not what was predicted. The meters were taken over in May 2013. We will get the numbers for 2 ½ years usage.

Next Scheduled Meeting Date:

The next scheduled meeting date is May 10, 2016.

Adjourn:

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

Prepared by: _____
Beverly Hoyt
Public Works Secretary
/Temp

Adopted and Approved By the Board of Public Works:

Date: _____ Signature : _____
Secretary

Memo

To: Board of Public Works

From: Kevin Quaethem, Water and Wastewater Superintendent

Date: 5/6/2016

Re: KJ Unnerstall. - Pay Request 1

Attached is the Pay Request #1 in the amount of \$12,790.00 KJ Unnerstall for the Upsizing Pipe on High Street Extension for the City of Washington. Payment is recommended and the status is summarized below:

<u>Description</u>	<u>Contract Amount</u>
Contract Amount	\$12,790.00
Current Change Order	\$0.00
	<hr/>
	\$12,790.00

Current Pay Request #1	\$ 12,790.00	\$12,790.00
Balance of Contract		\$ 0.00

Approved by: _____ Date: _____
Kurt Voss, Board of Public Works Chairman

Breakdown of Material, Labor, and Rock Excavation Costs

12 inch Material	Unit Price	Qty	Unit	Extension
12" SDR 21	\$9.35	1200	LF	\$11,220.00
12" MJ Gate Valve	\$1,390.00	1	EA	\$1,390.00
12"x 6" MJ Tee	\$168.00	3	EA	\$504.00
12" x 8" MJ Tee	\$189.00	3	EA	\$567.00
12" wedge restraint	\$94.00	16	EA	\$1,504.00
12" Pipe and Fittings Total				\$15,185.00

8 inch Material

8" SDR 21	\$4.79	1200	LF	\$5,748.00
8" MJ Gate Valve	\$750.00	1	EA	\$750.00
8"x 6" MJ Tee	\$113.25	3	EA	\$339.75
8" x 8" MJ Tee	\$131.50	3	EA	\$394.50
8" wedge restraint	\$62.00	16	EA	\$992.00
8" Pipe and Fittings Total				\$8,224.25

Material Cost Upgrade= \$6,960.75

Labor	Unit Price	Qty	Unit	Extension
12 inch production = approx. 250 feet per day. Actual manhours = 164. 4 man crew, labor costs only- no equipment charge	\$45.00	164	HRS	\$7,380.00
8 inch production = approx. 400 feet per day. 4 man crew, labor costs only - no equipment charge	\$45.00	96	HRS	\$4,320.00

Labor Upgrade Cost= \$3,060.00

Rock	Unit Price	Qty	Unit	Extension
Break rock, Trackhoe with Breaker. 100 feet an additional 6 inch depth to accomodate 12 inch pipe	\$200.00	4	CY	\$800.00
Ed's Drilling and Blasting, 282 feet an additional 6 inch depth required for 12 inch pipe install	\$180.00	11	CY	\$1,980.00

Rock Excavation Upgrade Cost= \$2,780.00

Total Cost to Upgrade from 8 inch to 12 inch watermain= \$12,800.75

Invoice to City for Watermain Upgrade \$12,790.00

Memo

To: Board of Public Works

From: Kevin Quaethem, Water and Wastewater Superintendent

Date: 5/6/2016

Re: Electric Unlimited. - Pay Request 3 (Partial)

Attached is the Pay Request #3 in the amount of \$85,700.00 from Electric Unlimited LLC for the Contract Agreement for the City of Washington WWTP Electrical Modifications Project. Payment is recommended and the status is summarized below:

<u>Description</u>	<u>Contract Amount</u>
Contract Amount	\$274,300.00
Current Change Order	\$0.00
	<hr/>
	\$274,300.00

Previous Partial Payment #1	\$145,500.00	
Previous Partial Payment #2	\$20,000.00	
Current Pay Request #3	\$85,700.00	\$251,200.00
Balance of Contract		\$23,100.00

Approved by: _____
Kurt Voss, Board of Public Works Chairman

Date: _____

ELECTRIC UNLIMITED LLC.

1415 EAST 6th STREET
WASHINGTON, MO. 63090

Invoice

Date	Invoice #
4/1/2016	1642

636-368-1366

Bill To
City of Washington Public Works Dept. 405 Jefferson Washington, MO 63090

P.O. No.		Terms	Project	
		Due on receipt		
Quantity	Description	Rate	Amount	
	Mechanical/Raider Mechanical	15,700.00	15,700.00	
	Labor	30,000.00	30,000.00	
	Material	40,000.00	40,000.00	
		Total	\$85,700.00	

APPLICATION AND CERTIFICATE FOR PAYMENT AIA DOCUMENT G702 (Instructions on reverse side) PAGE ONE OF PAGES

TO OWNER: CITY OF WASHINGTON PARKS DEPT.
 405 JEFFERSON
 WASHINGTON, MO 63090

PROJECT: WASHINGTON WWTP

APPLICATION NO.: 3
 PERIOD TO: 4/10/2016
 PROJECT NOS.:

FROM CONTRACTOR: ELECTRIC UNLIMITED, LLC
 1415 EAST 6TH ST.
 WASHINGTON, MO 63090

VIA ARCHITECT:

CONTRACT DATE:

Distribution to:
 OWNER
 ARCHITECT
 CONTRACTOR

CONTRACT FOR:

CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment, as shown below, in connection with the Contract, Continuation Sheet, AIA Document G703, is attached.

- 1. ORIGINAL CONTRACT SUM \$ 274,300.00
- 2. Net change by Change Orders \$ 0.00
- 3. CONTRACT SUM TO DATE (Line 1 ± 2) \$ 274,300.00
- 4. TOTAL COMPLETED & STORED TO DATE \$ 251,200.00
 (Column G on G703)
- 5. RETAINAGE:
 - a. % of Completed Work \$ _____
 (Columns D + E on G703)
 - b. % of Stored Material \$ _____
 (Column F on G703)
 - Total Retainage (Line 5a + 5b or Total in Column I of G703) \$ _____
- 6. TOTAL EARNED LESS RETAINAGE \$ 251,200.00
 (Line 4 less Line 5 Total)
- 7. LESS PREVIOUS CERTIFICATES FOR PAYMENT \$ 165,500.00
 (Line 6 from prior Certificate)
- 8. CURRENT PAYMENT DUE \$ 85,700.00
- 9. BALANCE TO FINISH, INCLUDING RETAINAGE \$ 23,100.00
 (Line 3 less Line 6)

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in previous months by Owner		
Total approved this Month		
TOTALS		
NET CHANGES by Change Order		

CAUTION: You should use an original AIA document which has this caution printed in red. An original assures that changes will not be obscured as may occur when documents are reproduced.

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The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

CONTRACTOR: ELECTRIC UNLIMITED, LLC
 By: [Signature] Date: 4/10/16

State of: Missouri
 Country of: Warren
 Subscribed and sworn to before me this 10th day of April, 2016
Rebecca Asphardant
 Notary Public: 9/28/2019
 My Commission expires: 9/28/2019

Rebecca A. Huddleston
 Notary Public - Notary Seal
 State of Missouri
 Warren County
 My Commission Expires: September 28, 2019
 Commission # 15999780

ARCHITECT'S CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising this application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED \$ _____

(Attach explanation if amount certified differs from the amount applied for. Initial all figures on this Application and on the Continuation Sheet that are changed to conform to the amount certified.)

By: _____ Date: _____
 ARCHITECT: _____
 This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

Memo

To: Board of Public Works

From: Kevin Quaethem, Water and Wastewater Superintendent

Date: 5/5/2016

Re: Hydraulic Study - Donohue & Associates, Inc. - Pay Request 11 (Partial)

Attached is the pay request in the amount of \$2,900.00 from Donohue & Associates, Inc. for the Performance Contract Agreement for the City of Washington Donohue Project. Payment is recommended and the status is summarized below:

<u>Description</u>	<u>Contract Amount</u>
Contract Amount	\$58,000.00
Current Change Order	\$0.00
	<hr/>
	\$58,000.00
Previous Pay Request #1	\$9,860.00
Previous Pay Request #2	\$4,640.00
Previous Pay Request #3	\$2,900.00
Previous Pay Request #4	\$3,480.00
Previous Pay Request #5	\$5,220.00
Previous Pay Request #6	\$6,380.00
Previous Pay Request #7	\$2,030.00
Previous Pay Request #8	\$4,640.00
Previous Pay Request #9	\$2,610.00
Previous Pay Request #10	\$1,740.00
Current Pay Request #11	\$2,900.00
	<hr/>
Balance of Contract	\$46,400.00
	<hr/>
	\$11,600.00

Approved by: _____
Kurt Voss, Board of Public Works Chairman

Date: _____



Donohue & Associates, Inc.
1415 Elbridge Payne Road, Suite 165 | Chesterfield, MO 63017
636.536.7042 | donohue-associates.com

May 2, 2016

Mr. Kevin Quaethem
City of Washington
405 Jefferson Street
Washington, MO 63090

Re: Hydraulic Study
Invoice 12725-12

Dear Kevin:

Please find enclosed Invoice No. 12725-12 for work performed on the above referenced project. This invoice covers the work from July 19, 2015 through April 23, 2016. The work completed includes continued calibration of the hydraulic model and the finalizing of the report. Also, a meeting on the project was held in Washington on April 15th to discuss issues and solicit City comments.

Should you have any questions regarding this invoice or the work completed, please do not hesitate to contact me at (636) 536-7042.

Sincerely,

A handwritten signature in black ink that reads 'Alan Callier'.

Alan Callier, PE
Office Manager

Enclosures: As noted

INVOICE



1415 Elbridge Payne Rd., Suite 165
Chesterfield, MO 63017
Phone: 636-536-7042
www.donohue-associates.com

Invoice To:

City of Washington
Attn: Kevin Quaethem
405 Jefferson Street
Washington, MO 63090

Invoice Date: April 29, 2016
Donohue Project No.: 12725
Invoice No: 12725-12
Project Manager: Al Callier
Terms: Net 30 Days
Billing Period: 07/19/15 - 04/23/16

Project Description: Hydraulic Study

Your Authorization: Engineering Services Agreement, Signed 07/01/14

Compensation: Lump Sum \$ 58,000.00

Billing Summary:

<u>Current Charges</u>	
Percent Complete	80.0%
Fee Earned	\$ 46,400.00
Charges Previously Billed	\$ 43,500.00
Total	\$ 2,900.00

Current Charges Due \$ 2,900.00

Please Remit to: Donohue & Associates, Inc.
3311 Weeden Creek Road
Sheboygan, WI 53081
Phone: 920-208-0296
Fax: 920-208-0402

<u>Aged Receivables</u>				
<u>Current</u>	<u>31 - 60 Days</u>	<u>61 - 90 Days</u>	<u>91 - 120 days</u>	<u>>120 days</u>
\$2,900.00	\$0.00	\$0.00	\$0.00	\$4,640.00

Memo

To: Board of Public Works
From: Kevin Quaethem, Water and Wastewater Superintendent
Date: 5/6/2016
Re: Donohue & Associates, Inc. - Pay Request #2 and #3 (Partial)

Attached are two pay requests for the total amount of \$653.50 from Donohue & Associates, Inc. for the Permanent Chlorination System Design for the City of Washington Donohue Project. Payment is recommended and the status is summarized below:

<u>Description</u>	<u>Contract Amount</u>
Contract Amount	\$6,535.00
Current Change Order	\$0.00

Previous Pay Requests #1	\$5,489.40	
Current Pay Request #2	\$ 392.10	
Current Pay Request #3	\$ 261.40	\$ 653.50
Balance of Contract		\$4,835.90

Approved by: _____ Date: _____
 Kurt Voss, Board of Public Works Chairman

INVOICE



1415 Elbridge Payne Rd., Suite 165
Chesterfield, MO 63017
Phone: 636-536-7042
www.donohue-associates.com

Invoice To:	Invoice Date:	February 18, 2016
City of Washington	Donohue Project No.:	13026
Attn: Kevin Quaethem	Invoice No:	13026-02
405 Jefferson Street	Project Manager:	Chris Safford
Washington, MO 63090	Terms:	Net 30 Days
	Billing Period:	01/17/16 - 02/13/16

Project Description: Permanent Chlorination System Design
Your Authorization: Engineering Services Agreement, Signed 11/18/15

Compensation: Lump Sum \$ 6,535.00

Billing Summary:	Current Charges	
	Percent Complete	90.0%
	Fee Earned	\$ 5,881.50
	Charges Previously Billed	\$ 5,489.40
	Total	\$ 392.10
	Current Charges Due	\$ 392.10

Please Remit to: Donohue & Associates, Inc.
3311 Weeden Creek Road
Sheboygan, WI 53081
Phone: 920-208-0296
Fax: 920-208-0402

Aged Receivables				
<u>Current</u>	<u>31 - 60 Days</u>	<u>61 - 90 Days</u>	<u>91 - 120 days</u>	<u>>120 days</u>
\$392.10	\$5,489.40	\$0.00	\$0.00	\$0.00

INVOICE



1415 Elbridge Payne Rd., Suite 165
Chesterfield, MO 63017
Phone: 636-536-7042
www.donohue-associates.com

Invoice To:	Invoice Date:	March 17, 2016
City of Washington	Donohue Project No.:	13026
Attn: Kevin Quaethem	Invoice No:	13026-03
405 Jefferson Street	Project Manager:	Chris Safford
Washington, MO 63090	Terms:	Net 30 Days
	Billing Period:	02/14/16 - 03/12/16

Project Description: Permanent Chlorination System Design
Your Authorization: Engineering Services Agreement, Signed 11/18/15

Compensation: Lump Sum \$ 6,535.00

Billing Summary:	<u>Current Charges</u>	
	Percent Complete	94.0%
	Fee Earned	\$ 6,142.90
	Charges Previously Billed	\$ 5,881.50
	Total	\$ 261.40
	Current Charges Due	\$ 261.40

Please Remit to: Donohue & Associates, Inc.
3311 Weeden Creek Road
Sheboygan, WI 53081
Phone: 920-208-0296
Fax: 920-208-0402

<u>Aged Receivables</u>				
<u>Current</u>	<u>31 - 60 Days</u>	<u>61 - 90 Days</u>	<u>91 - 120 days</u>	<u>>120 days</u>
\$261.40	\$392.10	\$0.00	\$0.00	\$0.00



Donohue & Associates, Inc.
1415 Elbridge Payne Road, Suite 165 | Chesterfield, MO 63017
636.536.7042 | donohue-associates.com

February 15, 2016

Mr. Kevin Quaethem
City of Washington
405 Jefferson Street
Washington, MO 63090

Re: Permanent Chlorination System (13026)
Invoice 12026-02

Dear Kevin:

Please find enclosed Invoice No. 12026-02 for work performed on the above referenced project. This invoice covers the work from January 17, 2016 through February 13, 2016. The work completed includes finalizing the construction plans and coordination with MDNR for approval. The remaining activities include a final submission to MDNR for approval. Once we have approval from MDNR, a final set of sealed drawings will be provided for your use.

Should you have any questions regarding this invoice or the work completed, please do not hesitate to contact me at (636) 400-7046.

Sincerely,

A handwritten signature in black ink, appearing to read 'Chris Safford', is written over a light blue horizontal line.

Christopher M. Safford, PE
Project Manager

Enclosures: As noted



	Original Total Budget	Current Total Budget	Period Activity	Fiscal Activity	Variance Favorable (Unfavorable)	Percent Remaining
Fund: 400 - WATER FUND						
Revenue						
400-35-000-450600		22,000.00	1,887.27	12,789.16	-9,210.84	41.87 %
400-35-000-450900		15,000.00	2,812.44	18,337.60	3,337.60	122.25 %
400-35-000-453100	1,430,000.00	1,430,000.00	96,271.59	751,432.63	-678,567.37	47.45 %
400-35-000-453200		10,000.00	313.49	9,668.91	-331.09	3.31 %
400-35-000-453500		15,000.00	350.00	3,600.00	-11,400.00	76.00 %
400-35-000-453550		500.00	0.00	0.00	-500.00	100.00 %
400-35-000-453600		500.00	0.00	2,440.34	1,940.34	488.07 %
400-35-000-453700		10,000.00	0.00	2,445.85	-7,554.15	75.54 %
400-35-000-461200		53,460.00	3,811.60	26,213.08	-27,246.92	50.97 %
400-35-000-480000		3,000.00	0.00	3,738.13	738.13	124.60 %
400-35-000-480100		3,300.00	0.00	1,577.19	-1,722.81	52.21 %
Revenue Total:	1,562,760.00	1,562,760.00	105,446.39	832,242.89	-730,517.11	46.75 %
Expense						
400-35-000-510100		362,910.00	23,185.93	183,967.08	178,942.92	49.31 %
400-35-000-510150		200.00	0.00	100.00	100.00	50.00 %
400-35-000-510200		5,100.00	0.00	0.00	5,100.00	100.00 %
400-35-000-510300		8,360.00	770.26	8,855.77	-495.77	-5.93 %
400-35-000-511100		28,810.00	1,812.59	15,168.43	13,641.57	47.35 %
400-35-000-511300		92,110.00	6,838.24	48,451.36	43,658.64	47.40 %
400-35-000-511400		6,620.00	437.47	3,233.78	3,386.22	51.15 %
400-35-000-511600		730.00	55.44	336.05	393.95	53.97 %
400-35-000-511700		40,100.00	2,724.99	22,285.76	17,814.24	44.42 %
400-35-000-512601		2,500.00	0.00	0.00	2,500.00	100.00 %
400-35-000-512605		300.00	0.00	193.18	106.82	35.61 %
400-35-000-512700		22,500.00	0.00	6,903.73	15,596.27	69.32 %
400-35-000-512701		490.00	0.00	0.00	490.00	100.00 %
400-35-000-520150		0.00	1,274.94	16,338.81	-16,338.81	0.00 %
400-35-000-520250		151,810.00	0.00	75,905.04	75,904.96	50.00 %
400-35-000-520300		10,400.00	8,975.48	13,084.73	-2,684.73	-25.81 %
400-35-000-520400		80,000.00	9,778.41	37,248.63	42,751.37	53.44 %
400-35-000-521540		2,000.00	223.32	1,068.96	931.04	46.55 %
400-35-000-521560		10,000.00	0.00	0.00	10,000.00	100.00 %
400-35-000-521620		12,000.00	349.50	2,846.33	9,153.67	76.28 %
400-35-000-521630		7,500.00	973.76	4,950.57	2,549.43	33.99 %
400-35-000-521635		10,000.00	0.00	0.00	10,000.00	100.00 %
400-35-000-521636		40,000.00	0.00	0.00	40,000.00	100.00 %
400-35-000-521640		1,000.00	38.82	691.76	308.24	30.82 %
400-35-000-522100		200.00	0.00	0.00	200.00	100.00 %
400-35-000-522200		34,610.00	0.00	0.00	34,610.00	100.00 %
400-35-000-522210		0.00	0.00	498.88	-498.88	0.00 %
400-35-000-522300		1,300.00	0.00	998.46	301.54	23.20 %
400-35-000-522400		8,000.00	609.49	3,533.74	4,466.26	55.83 %
400-35-000-522410		4,500.00	425.34	2,552.04	1,947.96	43.29 %
400-35-000-522500		1,400.00	255.75	880.75	519.25	37.09 %
400-35-000-522600		1,200.00	685.27	685.27	514.73	42.89 %
400-35-000-522700		2,050.00	0.00	737.00	1,313.00	64.05 %
400-35-000-522900		12,000.00	913.98	7,285.20	4,714.80	39.29 %
400-35-000-522950		4,400.00	506.84	3,248.75	1,151.25	26.16 %
400-35-000-530410		2,000.00	0.00	1,256.70	743.30	37.17 %
400-35-000-530415		2,000.00	641.60	1,835.56	164.44	8.22 %

Budget Report

For Fiscal: 2015-2016 Period Ending: 04/30/2016

	Original Total Budget	Current Total Budget	Period Activity	Fiscal Activity	Variance Favorable (Unfavorable)	Percent Remaining
400-35-000-530420	1,200.00	1,200.00	32.67	216.08	983.92	81.99 %
400-35-000-530500	15,000.00	15,000.00	2,190.68	10,123.80	4,876.20	32.51 %
400-35-000-530600	500.00	500.00	308.22	318.97	181.03	36.21 %
400-35-000-530800	7,000.00	7,000.00	1,846.80	15,390.89	-8,390.89	-119.87 %
400-35-000-530900	1,500.00	1,500.00	0.00	1,739.40	-239.40	-15.96 %
400-35-000-531110	150,000.00	150,000.00	9,289.93	64,599.71	85,400.29	56.93 %
400-35-000-531120	1,500.00	1,500.00	115.38	907.32	592.68	39.51 %
400-35-000-531300	22,000.00	22,000.00	0.00	6,103.70	15,896.30	72.26 %
400-35-000-532100	25,000.00	25,000.00	657.30	18,613.63	6,386.37	25.55 %
400-35-000-532200	22,000.00	22,000.00	5,591.83	15,760.96	6,239.04	28.36 %
400-35-000-534100	385,000.00	385,000.00	0.00	0.00	385,000.00	100.00 %
400-35-000-534200	29,650.00	29,650.00	3,582.88	6,784.50	22,865.50	77.12 %
400-35-000-540200	220,000.00	220,000.00	0.00	0.00	220,000.00	100.00 %
400-35-000-541100	0.00	0.00	0.00	5,489.40	-5,489.40	0.00 %
400-35-000-541110	168,000.00	168,000.00	1,791.90	92,411.90	75,588.10	44.99 %
400-35-000-542100	31,000.00	31,000.00	0.00	0.00	31,000.00	100.00 %
400-35-000-559100	0.00	0.00	0.00	3,843.87	-3,843.87	0.00 %
400-35-000-559200	121,200.00	121,200.00	0.00	0.00	121,200.00	100.00 %
400-35-090-559110	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	86,885.01	707,446.45	1,591,343.55	69.23 %

Fund: 400 - WATER FUND Surplus (Deficit): -736,030.00 -736,030.00 18,561.38 124,796.44 860,826.44 116.96 %

Fund: 410 - SEWAGE TREATMENT FUND

Revenue

410-36-000-418500	13,000.00	13,000.00	0.00	9,737.78	-3,262.22	25.09 %
410-36-000-450600	43,000.00	43,000.00	3,765.94	23,288.51	-19,711.49	45.84 %
410-36-000-450900	5,000.00	5,000.00	842.88	4,302.26	-697.74	13.95 %
410-36-000-453600	100.00	100.00	0.00	105.75	5.75	105.75 %
410-36-000-453700	500.00	500.00	0.00	6.60	-493.40	98.68 %
410-36-000-454100	2,390,000.00	2,390,000.00	197,007.56	1,401,091.89	-988,908.11	41.38 %
410-36-000-454125	15,000.00	15,000.00	0.00	16,650.43	1,650.43	111.00 %
410-36-000-454150	70,000.00	70,000.00	4,080.00	26,180.00	-43,820.00	62.60 %
410-36-000-454200	25,000.00	25,000.00	882.25	13,708.45	-11,291.55	45.17 %
410-36-000-480000	2,000.00	2,000.00	0.00	2,325.77	325.77	116.29 %
410-36-000-480200	460,000.00	460,000.00	0.00	217,817.83	-242,182.17	52.65 %
Revenue Total:	3,023,600.00	3,023,600.00	206,578.63	1,715,215.27	-1,308,384.73	43.27 %

Expense

410-36-000-510100	72,350.00	72,350.00	6,335.66	52,259.48	20,090.52	27.77 %
410-36-000-510200	5,100.00	5,100.00	0.00	0.00	5,100.00	100.00 %
410-36-000-510300	5,150.00	5,150.00	239.93	3,369.15	1,780.85	34.58 %
410-36-000-511100	6,320.00	6,320.00	594.90	5,256.44	1,063.56	16.83 %
410-36-000-511300	18,030.00	18,030.00	2,412.06	17,803.77	226.23	1.25 %
410-36-000-511400	1,200.00	1,200.00	167.72	1,261.09	-61.09	-5.09 %
410-36-000-511600	150.00	150.00	18.20	135.19	14.81	9.87 %
410-36-000-511700	8,810.00	8,810.00	910.57	7,770.03	1,039.97	11.80 %
410-36-000-512605	400.00	400.00	0.00	48.06	351.94	87.99 %
410-36-000-512700	6,000.00	6,000.00	0.00	1,402.88	4,597.12	76.62 %
410-36-000-512701	110.00	110.00	0.00	0.00	110.00	100.00 %
410-36-000-520150	0.00	0.00	662.98	8,496.20	-8,496.20	0.00 %
410-36-000-520250	68,125.00	68,125.00	0.00	34,062.54	34,062.46	50.00 %
410-36-000-520300	600.00	600.00	50.05	345.30	254.70	42.45 %
410-36-000-520400	11,000.00	11,000.00	958.91	2,130.60	8,869.40	80.63 %
410-36-000-520450	0.00	0.00	1,192.40	9,035.88	-9,035.88	0.00 %
410-36-000-521300	300.00	300.00	0.00	0.00	300.00	100.00 %
410-36-000-521540	1,500.00	1,500.00	63.24	324.59	1,175.41	78.36 %
410-36-000-521560	1,000.00	1,000.00	0.00	0.00	1,000.00	100.00 %
410-36-000-521620	30,000.00	30,000.00	774.82	7,624.90	22,375.10	74.58 %
410-36-000-521630	2,500.00	2,500.00	0.00	1,157.09	1,342.91	53.72 %

Budget Report

For Fiscal: 2015-2016 Period Ending: 04/30/2016

	Original Total Budget	Current Total Budget	Period Activity	Fiscal Activity	Variance Favorable (Unfavorable)	Percent Remaining
410-36-000-521640	Equipment Rental	500.00	500.00	38.82	191.76	308.24 61.65 %
410-36-000-522200	Property, Liability & Casualty Insur	15,560.00	15,560.00	0.00	125.00	15,435.00 99.20 %
410-36-000-522210	Self-Insurance Deductible	500.00	500.00	0.00	368.00	132.00 26.40 %
410-36-000-522300	Printing/Duplicating	400.00	400.00	0.00	272.69	127.31 31.83 %
410-36-000-522400	Telephone	3,000.00	3,000.00	250.76	1,416.18	1,583.82 52.79 %
410-36-000-522410	Telephone-Alarm Control	3,500.00	3,500.00	155.31	854.94	2,645.06 75.57 %
410-36-000-522500	Training/Seminars	1,000.00	1,000.00	228.49	439.49	560.51 56.05 %
410-36-000-522600	Travel	500.00	500.00	343.65	343.65	156.35 31.27 %
410-36-000-522700	Professional Dues & Memberships	500.00	500.00	35.00	591.00	-91.00 -18.20 %
410-36-000-522900	Postage	6,000.00	6,000.00	433.34	3,065.55	2,934.45 48.91 %
410-36-000-522950	Credit Card Fees	4,400.00	4,400.00	506.83	3,167.55	1,232.45 28.01 %
410-36-000-530200	Lab Supplies	50.00	50.00	0.00	0.00	50.00 100.00 %
410-36-000-530410	Parts-Vehicle	600.00	600.00	0.00	59.89	540.11 90.02 %
410-36-000-530415	Parts-Equipment	10,000.00	10,000.00	601.22	11,276.79	-1,276.79 -12.77 %
410-36-000-530420	Offices Supplies	500.00	500.00	27.28	206.37	293.63 58.73 %
410-36-000-530500	Asphalt/Rock/Cement	2,500.00	2,500.00	503.80	2,341.18	158.82 6.35 %
410-36-000-530600	Straw/Seeding/Plants	250.00	250.00	147.19	147.19	102.81 41.12 %
410-36-000-530800	General Supplies	2,300.00	2,300.00	626.03	1,416.36	883.64 38.42 %
410-36-000-530900	Employee Appreciation Cost	200.00	200.00	0.00	49.71	150.29 75.15 %
410-36-000-531110	Electricity	44,000.00	44,000.00	3,850.58	20,629.88	23,370.12 53.11 %
410-36-000-531120	Heating Fuel	10,500.00	10,500.00	115.36	907.28	9,592.72 91.36 %
410-36-000-531300	Gasoline & Oil	7,500.00	7,500.00	0.00	3,191.82	4,308.18 57.44 %
410-36-000-532200	Pipe & Fittings	2,500.00	2,500.00	2.87	1,593.29	906.71 36.27 %
410-36-000-532270	Manhole Replacement Program	11,000.00	11,000.00	61.56	7,154.86	3,845.14 34.96 %
410-36-000-533100	Chemicals	3,000.00	3,000.00	0.00	0.00	3,000.00 100.00 %
410-36-000-534100	Depreciation Expense	310,000.00	310,000.00	0.00	0.00	310,000.00 100.00 %
410-36-000-534200	SmallTools/Equipment/Furnishings	13,320.00	13,320.00	254.94	478.48	12,841.52 96.41 %
410-36-000-541100	Improvements Other Than Building	140,000.00	140,000.00	0.00	0.00	140,000.00 100.00 %
410-36-000-541120	Sanitary Sewer System Improve	150,000.00	150,000.00	0.00	14,249.65	135,750.35 90.50 %
410-36-000-542100	Vehicles	90,000.00	90,000.00	0.00	0.00	90,000.00 100.00 %
410-36-000-542200	Machinery & Equipment	10,000.00	10,000.00	0.00	0.00	10,000.00 100.00 %
410-36-000-559100	Bad Debts Expense	0.00	0.00	0.00	5,942.45	-5,942.45 0.00 %
410-36-090-559110	Interest Expense	655,800.00	655,800.00	0.00	332,534.38	323,265.62 49.29 %
410-36-090-559120	Agent Fees	83,000.00	83,000.00	0.00	77,692.75	5,307.25 6.39 %
410-36-090-559130	Amortization of Bond Discount/Pre	-21,340.00	-21,340.00	0.00	0.00	-21,340.00 100.00 %
410-36-090-559200	Bond/Note Principal	930,000.00	930,000.00	0.00	930,000.00	0.00 0.00 %
410-36-361-510100	Salaries/Wages-Regular	310,550.00	310,550.00	13,966.57	109,201.54	201,348.46 64.84 %
410-36-361-510300	Salaries/Wages-Overtime	2,500.00	2,500.00	165.55	2,790.35	-290.35 -11.61 %
410-36-361-511100	FICA Taxes	23,950.00	23,950.00	1,140.02	9,292.66	14,657.34 61.20 %
410-36-361-511300	Health Insurance	68,340.00	68,340.00	3,838.65	27,080.41	41,259.59 60.37 %
410-36-361-511400	Dental Insurance	4,530.00	4,530.00	235.38	1,732.01	2,797.99 61.77 %
410-36-361-511600	Life Insurance	580.00	580.00	34.09	250.83	329.17 56.75 %
410-36-361-511700	LAGERS Retirement Plan	33,370.00	33,370.00	1,721.15	13,772.56	19,597.44 58.73 %
410-36-361-512605	Employee Incentive Program	200.00	200.00	0.00	96.26	103.74 51.87 %
410-36-361-512700	HRA Deductible	9,000.00	9,000.00	0.00	3,592.25	5,407.75 60.09 %
410-36-361-512701	HRA Administration Fee	220.00	220.00	0.00	0.00	220.00 100.00 %
410-36-361-520150	Engineering & Inspection Departm	0.00	0.00	611.96	7,842.60	-7,842.60 0.00 %
410-36-361-520250	Administration, Finance & IT Depar	68,125.00	68,125.00	0.00	34,062.54	34,062.46 50.00 %
410-36-361-520300	Technical Services	20,200.00	20,200.00	1,342.55	4,864.55	15,335.45 75.92 %
410-36-361-520400	Other Contracted Services	16,350.00	16,350.00	2,387.27	3,666.27	12,683.73 77.58 %
410-36-361-520450	Public Works Staff Services	0.00	0.00	1,192.40	9,035.87	-9,035.87 0.00 %
410-36-361-521300	Tipping Fee - City of Washington	1,200.00	1,200.00	125.63	875.04	324.96 27.08 %
410-36-361-521540	Uniform Cleaning Service	500.00	500.00	147.48	687.14	-187.14 -37.43 %
410-36-361-521560	Building Repair & Maintenance	2,000.00	2,000.00	0.00	0.00	2,000.00 100.00 %
410-36-361-521620	Equipment Repair & Maintenance	108,100.00	108,100.00	10,189.86	11,821.89	96,278.11 89.06 %
410-36-361-521630	Vehicle Repair & Maintenance	3,000.00	3,000.00	726.01	4,421.53	-1,421.53 -47.38 %
410-36-361-521640	Equipment Rental	500.00	500.00	0.00	0.00	500.00 100.00 %
410-36-361-522200	Property, Liability & Casualty Insur	21,670.00	21,670.00	0.00	0.00	21,670.00 100.00 %

Budget Report

For Fiscal: 2015-2016 Period Ending: 04/30/2016

	Original Total Budget	Current Total Budget	Period Activity	Fiscal Activity	Variance Favorable (Unfavorable)	Percent Remaining
<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	716.97	4,039.50	2,460.50 37.85 %
<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	433.34	3,069.64	1,430.36 31.79 %
<u>410-36-361-530200</u>	Lab Supplies	13,600.00	13,600.00	201.84	468.56	13,131.44 96.55 %
<u>410-36-361-530410</u>	Parts-Vehicle	1,000.00	1,000.00	0.00	377.51	622.49 62.25 %
<u>410-36-361-530415</u>	Parts-Equipment	28,600.00	28,600.00	1,112.17	5,215.38	23,384.62 81.76 %
<u>410-36-361-530420</u>	Offices Supplies	500.00	500.00	28.69	103.25	396.75 79.35 %
<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	176.76	1,131.74	2,868.26 71.71 %
<u>410-36-361-531110</u>	Electricity	170,000.00	170,000.00	11,556.77	78,225.98	91,774.02 53.98 %
<u>410-36-361-531120</u>	Heating Fuel	13,000.00	13,000.00	1,210.22	8,849.59	4,150.41 31.93 %
<u>410-36-361-531300</u>	Gasoline & Oil	3,000.00	3,000.00	0.00	1,231.71	1,768.29 58.94 %
<u>410-36-361-532200</u>	Pipe & Fittings	1,200.00	1,200.00	1,713.34	1,748.29	-548.29 -45.69 %
<u>410-36-361-533100</u>	Chemicals	17,300.00	17,300.00	2,878.08	9,115.08	8,184.92 47.31 %
<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	14.24	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	0.00	201,500.00 100.00 %
	Expense Total:	4,800,050.00	4,800,050.00	80,431.46	1,937,836.22	2,862,213.78 59.63 %
	Fund: 410 - SEWAGE TREATMENT FUND Surplus (Deficit):	-1,776,450.00	-1,776,450.00	126,147.17	-222,620.95	1,553,829.05 87.47 %
	Report Surplus (Deficit):	-2,512,480.00	-2,512,480.00	144,708.55	-97,824.51	2,414,655.49 96.11 %

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	105,446.39	832,242.89	-730,517.11	46.75 %
Expense	2,298,790.00	2,298,790.00	86,885.01	707,446.45	1,591,343.55	69.23 %
Fund: 400 - WATER FUND Surplus (Deficit):	-736,030.00	-736,030.00	18,561.38	124,796.44	860,826.44	116.96 %
Fund: 410 - SEWAGE TREATMENT FUND						
Revenue	3,023,600.00	3,023,600.00	206,578.63	1,715,215.27	-1,308,384.73	43.27 %
Expense	4,800,050.00	4,800,050.00	80,431.46	1,937,836.22	2,862,213.78	59.63 %
Fund: 410 - SEWAGE TREATMENT FUND Surplus (Deficit):	-1,776,450.00	-1,776,450.00	126,147.17	-222,620.95	1,553,829.05	87.47 %
Report Surplus (Deficit):	-2,512,480.00	-2,512,480.00	144,708.55	-97,824.51	2,414,655.49	96.11 %

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	18,561.38	124,796.44	860,826.44
410 - SEWAGE TREATMENT FUND	-1,776,450.00	-1,776,450.00	126,147.17	-222,620.95	1,553,829.05
Report Surplus (Deficit):	-2,512,480.00	-2,512,480.00	144,708.55	-97,824.51	2,414,655.49

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: May 6, 2016

RE: Work Performed by the Water and Wastewater Departments

STATUS OF MAJOR CONTRACTS –APRIL 2016

PROJECT	VENDOR	CONTRACT AMOUNT	PREVIOUSLY APPROVED	CURRENTLY APPROVED	BALANCE
Hydraulic Study	Donohue	\$58,000.00			\$ 14,500.00
WWTP Electrical Modifications	Electric Unlimited	\$274,300.00			\$108,800.00
Permanent Chlorination System Design	Donohue	\$6,535.00			\$ 1,045.60

APRIL 2016

Water Pumped April 2016. 61,502,280 2.05 mgd
 Wastewater Effluent Flow April 2016. 76,090,000 2.54 mgd
 Missouri One Call Locate messages received for locates.....156
 Meters Issued as new. 2
 Meters Issued as replacements.....0
 Meters Issued as new for irrigation systems0
 Water breaks repaired.3
 Sewer Routines44
 Delinquent Accounts actually shut off in April 2016.95

WATER DEPARTMENT FIELD WORK PERFORMED – APRIL 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 @ 12 Chamber Dr. 10. Water Break @ 6th & Madison | <ol style="list-style-type: none"> 11. Water Break @ Locust St. 12. Repair Service Line @ 520 Horn 13. Seed and Straw around town 14. Mr. Manholes 15. Deliver Chlorine to Wells 16. Meter Rereads 17. Worked on Antennas 18. Attended Training St. Peters |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

WASTEWATER DEPARTMENT FIELD WORK PERFORMED – APRIL 2016

- | | |
|-----------------------------------|--------------------------------------|
| 1. Sewer Routines | 11. Hauled Sludge |
| 2. Daily lab work and routines. | 12. Cleaned Clarifiers |
| 3. Cleaned belt press. | 13. Replaced Various Hoses |
| 4. Clean Process Filters | 14. Vehicles & Equipment Maintenance |
| 5. Run belt press. | 15. Camera Various Sewer Lines |
| 6. Cleaned bar screen. | 16. Sprayed for Weeds |
| 7. Sprayed all Lift Stations | |
| 8. Checked Drain & temp gauges | |
| 9. Cleaned polymer barrels | |
| 10. Sewer Call @ United Way Bldg. | |
| 11. Cleaned grit tanks | |

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.

Missouri Department of Natural Resources
 Division of Environmental Quality
Microbiological Analysis Report

P.O. Box 176
 Jefferson City, MO 65102
 314--751-5331

Public Water System Name Washington Water Dept.				Laboratory Name Franklin County Lab			
Street Address 405 Jefferson Street				7419 Hwy 47 Ste. A Union, MO			
City Washington		Zip Code 63090		Certification Number 00700			
County Franklin		I.D. Number MO6010838					
Date M/D/Y	Collection Point	Sample Type	Location Code	Sample Results		Chlorine Residual	
				Coliform	E-coli	Total	Free
4/5/16	200 E. 14th	R	R-8	A	A	0.71	0.59
4/5/16	4 Chamer	R	R-3	A	A	0.54	0.5
4/5/16	519 Washington	R	R-12	A	A	0.91	0.79
4/5/16	1 Scenic	R	R-11	A	A	0.49	0.4
4/5/16	405 Jefferson	R	R-4	A	A	0.36	0.31
4/12/16	1651 W. 5th	R	R-16	A	A	1.02	0.96
4/12/16	550 E 14th	R	R-5	A	A	0.41	0.39
4/12/16	1901 W. Main	R	R-17	A	A	1.14	0.98
4/12/16	515 Washington	R	R-2	A	A	1.13	1
4/12/16	1220 Lakeshore Dr	R	R-1	A	A	0.82	0.77
4/20/16	1 Scenic	R	R-11	A	A	0.31	0.26
4/20/16	4 Chamer	R	R-3	A	A	0.55	0.51
4/20/16	519 Washington	R	R-12	A	A	0.61	0.59
4/20/16	404 E 2nd	R	R-13	A	A	0.52	0.47
4/20/16	405 Jefferson	R	R-4	A	A	0.54	0.49
4/21/16	Jefferson St Bridge Project	S		A	A	0.77	0.6
Total Routine Samples: 15				Signed: Kristen Wideman		Date: 4/29/2016	
Monitoring Violation <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Title: Lab Assistant			
MCL Violation <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							

Disinfectant Monitoring

PWS:	The City of Washington - Well # 3			
PWSID:	.MO6010838			
County:	Franklin			
Month:	April			
Date	Time	Free Cl (mg/l)	Total Cl (mg/l)	Sampler
1	10:24	0.7		KD
2	7:29	0.69		KD
3	7:35	0.64		KD
4	9:09	0.7		KD
5	8:43	0.72	0.49	CA
6	9:37	0.7		BK
7	9:05	0.91		CDC
8	8:24	1.17		CDC
9	6:42	0.86		CDC
10	6:35	0.99		CDC
11	8:20	0.97		RW
12	8:13	0.87	1.13	CDC
13	8:52	1.09		CA
14	7:40	0.53		CDC
15	8:05	0.5		CDC
16	7:15	0.5		BK
17	8:15	0.57		BK
18	8:26	0.55		CDC
19	10:15	0.53		BK
20	9:50	0.53	0.52	CDC
21	8:50	0.5		CDC
22	9:06	0.5		CA
23	7:52	0.62		AG
24	7:52	NA		AG
25	8:32	0.68		KD
26	9:10	0.69		CDC
27	8:27	0.67		CDC
28	8:27	0.9		CDC
29	8:19	0.86		AG
30	8:00	0.75		RW
31				

Notes:

Disinfectant Monitoring

PWS:	The City of Washington - Well # 4			
PWSID:	.MO6010838			
County:	Franklin			
Month:	April			
Date	Time	Free Cl (mg/l)	Total Cl (mg/l)	Sampler
1	8:50	1.01		KD
2	7:49	0.87		KD
3	6:43	0.64		KD
4	8:32	0.5		CA
5	8:31	1.42	0.36	CA
6	8:22	0.75		BK
7	9:52	0.72		CDC
8	9:55	0.94		CDC
9	7:45	0.61		CDC
10	7:35	0.94		CDC
11	8:03	0.82		RW
12	8:03	0.74	0.82	CDC
13	8:27	0.77		CA
14	9:43	0.73		CDC
15	7:48	0.81		CDC
16	6:55	0.93		BK
17	8:00	0.86		BK
18	8:00	0.79		CDC
19	8:35	0.57		BK
20	10:15	0.78	0.54	CDC
21	8:33	0.62		CDC
22	9:00	0.88		CA
23	7:37	0.98		AG
24	7:38	0.6		AG
25	9:04	0.68		AG
26	8:57	0.68		CDC
27	8:50	0.69		CDC
28	8:50	0.7		CDC
29	7:55	0.59		AG
30	8:25	0.62		RW
31				

Notes:

Disinfectant Monitoring

PWS:	The City of Washington - Well # 5			
PWSID:	.MO6010838			
County:	Franklin			
Month:	April			
Date	Time	Free Cl (mg/l)	Total Cl (mg/l)	Sampler
1	10:55	0.5		KD
2	6:52	0.51		KD
3	7:46	0.52		KD
4	9:45	0.66		KD
5	9:23	0.53		CA
6	9:25	0.58		BK
7	8:35	0.54		CDC
8	9:23	0.54		CDC
9	7:25	0.6		CDC
10	6:27	0.58		CDC
11	8:58	0.56		RW
12	8:47	0.59		CDC
13	11:15	0.59		CA
14	8:20	0.55		CDC
15	8:42	0.55		CDC
16	7:30	0.5		BK
17	8:30	0.52		BK
18	9:25	0.58		CDC
19	10:05	0.63		RW
20	8:11	0.77		RW
21	9:20	0.51		CDC
22	10:32	0.5		CA
23	8:02	0.62		AG
24	9:00	0.76		AG
25	4:00	0.56		KD
26	9:20	0.54		CDC
27	8:13	0.52		CDC
28	7:50	0.64		CDC
29	9:00	0.64		AG
30	8:54	0.55		RW
31				

Notes:

Disinfectant Monitoring

PWS:	The City of Washington - Well # 6			
PWSID:	.MO6010838			
County:	Franklin			
Month:	April			
Date	Time	Free Cl (mg/l)	Total Cl (mg/l)	Sampler
1	8:42	0.66		KD
2	7:43	0.72		KD
3	6:35	0.54		KD
4	8:25	0.56		CA
5	8:25	0.6		CA
6	8:16	0.5		BK
7	10:07	0.5		CDC
8	11:17	0.75		AG
9	8:00	0.52		CDC
10	7:50	0.59		CDC
11	8:00	0.63		RW
12	7:53	0.68		CDC
13	8:22	0.64		CA
14	10:22	0.54		CDC
15	7:35	0.7		CDC
16	6:40	0.51		BK
17	7:40	0.51		BK
18	7:52	0.63		CDC
19	8:27	0.6		RW
20	10:25	0.62		CDC
21	8:25	0.63		CDC
22	8:51	0.54		CA
23	7:29	0.56		AG
24	7:30	0.53		AG
25	8:55	0.55		AG
26	8:46	0.6		CDC
27	8:56	0.55		CDC
28	9:00	0.7		CDC
29	7:33	0.66		AG
30	5:33	0.63		RW
31				

Notes:

Disinfectant Monitoring

PWS:	The City of Washington - Well # 7			
PWSID:	.MO6010838			
County:	Franklin			
Month:	April			
Date	Time	Free Cl (mg/l)	Total Cl (mg/l)	Sampler
1	10:32	0.53		KD
2	7:13	0.51		KD
3	7:24	0.57		KD
4	9:19	0.56		KD
5	8:50	0.65		CA
6	10:20	0.53		BK
7	9:27	0.56		CDC
8	8:55	0.55		AG
9	6:55	0.54		CDC
10	6:52	0.57		CDC
11	8:30	0.53		RW
12	8:27	0.5		CDC
13	11:00	0.5		CA
14	7:56	0.57		CDC
15	8:23	0.6		CDC
16	7:45	0.62		BK
17	8:45	0.52		BK
18	8:36	0.59		CDC
19	10:45	0.7		BK
20	10:00	0.68		CDC
21	9:00	0.55		CDC
22	9:16	0.56		CA
23	8:27	0.53		AG
24	9:20	0.64		AG
25	3:45	0.52		KD
26	9:47	0.53		CDC
27	8:00	0.75		CDC
28	8:19	0.54		CDGD
29	8:30	0.56		AG
30	8:42	0.6		RW
31	8:13	0.5		CA

Notes:

Disinfectant Monitoring

PWS:	The City of Washington - Well # 8			
PWSID:	.MO6010838			
County:	Franklin			
Month:	April			
Date	Time	Free Cl (mg/l)	Total Cl (mg/l)	Sampler
1	8:32	1.42		KD
2	6:13	0.79		KD
3	6:10	0.53		KD
4	8:19	0.61		CA
5	7:58	0.67		CA
6	8:00	0.6		BK
7	10:15	0.7		CDC
8	10:39	0.85		AG
9	8:15	0.57		CDC
10	8:10	0.86		CDC
11	7:53	0.56		RW
12	7:29	1.42		CDC
13	7:42	1.06		CA
14	10:42	1		CDC
15	7:16	1.02		CDC
16	6:30	0.85		BK
17	7:25	0.83		BK
18	7:30	0.81		CDC
19	8:00	0.81		BK
20	12:52	0.78		CDC
21	7:52	0.78		CDC
22	8:35	0.77		CA
23	7:20	0.75		AG
24	7:23	0.76		AG
25	8:19	0.74		AG
26	8:20	0.72		KQ
27	9:07	0.69		CDC
28	9:10	1.11		CDC
29	7:17	0.9		AG
30	5:49	0.9		RW
31				

Notes:

Disinfectant Monitoring

PWS:	The City of Washington - Well # 9			
PWSID:	.MO6010838			
County:	Franklin			
Month:	April			
Date	Time	Free Cl (mg/l)	Total Cl (mg/l)	Sampler
1	7:55	0.54		KD
2	6:04	0.53		KD
3	5:59	0.59		KD
4	7:36	0.5		CA
5	7:30	0.53	0.71	CA
6	7:25	0.52		BK
7	10:43	0.51		CDC
8	11:30	0.5		CDC
9	8:45	0.5		CDC
10	8:50	0.51		CDC
11	7:33	0.52		RW
12	7:20	0.5	1.02	CDC
13	7:11	0.5		CA
14	11:00	0.5		CDC
15	7:10	0.5		CDC
16	6:05	0.5		BK
17	7:05	0.5		BK
18	7:21	0.5		CDC
19	7:35	0.53		RW
20	12:43	0.52	0.31	CDC
21	7:43	0.53		CA
22	8:05	0.5		CA
23	7:00	0.58		AG
24	7:00	0.54		AG
25	8:05	0.64		AG
26	8:27	0.53		CDC
27	9:34	0.53		CDC
28	9:34	1.03		CDC
29	7:10	0.5		AG
30	12:58	0.51		RW
31				

Notes:

Disinfectant Monitoring

PWS:	The City of Washington - Well # 10			
PWSID:	.MO6010838			
County:	Franklin			
Month:	April			
Date	Time	Free Cl (mg/l)	Total Cl (mg/l)	Sampler
1	8:15	0.5		KD
2	6:25	0.51		KD
3	6:21	0.5		KD
4	7:46	0.57		CA
5	7:46	0.5	0.54	CA
6	7:45	0.5		BK
7	10:26	0.53		CDC
8	10:59	0.5		AG
9	8:30	0.61		CDC
10	8:23	0.52		CDC
11	7:44	1		RW
12	7:40	0.52	0.41	CDC
13	7:31	0.5		CA
14	10:32	0.5		CDC
15	7:26	0.5		CDC
16	6:15	0.61		BK
17	7:15	0.54		BK
18	7:40	0.54		CDC
19	8:15	0.55		BK
20	1:05	0.53	0.55	CDC
21	8:03	0.52		CDC
22	8:10	0.52		KQ
23	7:10	0.5		AG
24	7:13	1.06		AG
25	8:38	0.5		AG
26	8:35	0.5		CDC
27	9:18	0.5		CDC
28	9:20	1.09		CDC
29	7:25	0.64		AG
30	5:46	0.65		RW
31				

Notes:

Disinfectant Monitoring

PWS:	The City of Washington - Well # 11			
PWSID:	.MO6010838			
County:	Franklin			
Month:	April			
Date	Time	Free Cl (mg/l)	Total Cl (mg/l)	Sampler
1	10:44	0.58		KD
2	7:03	0.67		KD
3	7:15	0.7		KD
4	9:28	0.69		KD
5	9:15	0.68	0.91	CA
6	11:00	0.71		BK
7	9:35	0.8		CDC
8	9:13	0.97		AG
9	7:07	1.18		CDC
10	7:10	0.66		CDC
11	8:45	0.63		RW
12	8:37	1.01	1.14	CDC
13	11:07	1.45		CA
14	8:07	1.09		CDC
15	8:30	0.82		CDC
16	8:00	0.69		BK
17	9:05	1.25		BK
18	9:12	0.69		CDC
19	11:10	0.73		BK
20	8:47	0.77	0.61	CDC
21	9:10	0.72		CDC
22	11:33	1.89		CA
23	8:15	1.63		AG
24	9:09	0.75		AG
25	3:50	0.73		KD
26	9:30	0.81		CDC
27	7:40	0.98		CDC
28	8:00	1.89		CDC
29	8:45	0.94		AG
30	4:58	1.6		RW
31	8:06	0.51		CA

Notes: