

**Waukesha Water Utility  
Revenue Analysis  
July 2020**

	CURRENT MONTH				YEAR TO DATE			
	ACTUAL'20	BUDGET'20	VARIANCE	%	ACTUAL'20	BUDGET'20	VARIANCE	%
<b>OPERATING REVENUES:</b>								
Total Metered Sales	\$697,726	\$813,780	(\$116,054)	(14.26)	\$4,833,767	\$5,241,957	(\$408,190)	(7.79)
Private Fire Capacity	\$21,945	\$26,021	(\$4,076)	(15.66)	\$151,507	\$161,399	(\$9,892)	(6.13)
Public Fire Capacity	\$165,728	\$199,381	(\$33,653)	(16.88)	\$1,243,854	\$1,336,480	(\$92,626)	(6.93)
Other Operating Revenues	\$18,836	\$29,405	(\$10,568)	(35.94)	\$179,980	\$243,539	(\$63,559)	(26.10)
<b>TOTAL OPERATING REVENUES</b>	<b>\$904,235</b>	<b>\$1,068,587</b>	<b>(\$164,352)</b>	<b>(15.38)</b>	<b>\$6,409,108</b>	<b>\$6,983,375</b>	<b>(\$574,267)</b>	<b>(8.22)</b>
<b>Est. Rev. Impact due to Rate Case Delay:</b>								
Metered Sales			(\$135,630)				(\$399,057)	
Public/Private Fire			(\$37,567)				(\$114,037)	
Late Fees			(\$993)				(\$4,965)	
			<u>(\$174,190)</u>				<u>(\$518,058)</u>	
<b>Est. Rev. Impact due to COVID/Consumption Changes:</b>								
Metered Sales			\$19,576				(\$9,133)	
Late Fees			(\$8,759)				(\$36,016)	
			<u>\$10,817</u>				<u>(\$45,149)</u>	
<b>Other Revenue Impacts</b>			<u>(\$978)</u>				<u>(\$11,059)</u>	
<b>Total Revenue Budget Variance</b>			<u>(\$164,352)</u>				<u>(\$574,267)</u>	

**Waukesha Water Utility  
Consumption Analysis  
July 2020**

Customer Type	July 2020	July 2020	Over / (Under)		2020 YTD	2020 YTD	Over / (Under)	
	Gallons Billed	Gallons Budget			Gallons Billed	Gallons Budget		
Res - Single	61,468,100	53,215,960	8,252,140	15.5%	422,513,900	403,219,824	19,294,076	4.8%
Res - Duplex	8,842,200	8,208,872	633,328	7.7%	62,258,600	60,812,038	1,446,562	2.4%
Res - Triplex	589,700	592,312	(2,612)	-0.4%	4,350,100	4,291,028	59,072	1.4%
Res - Total	70,900,000	62,017,144	8,882,856	14.3%	489,122,600	468,322,890	20,799,710	4.4%
Commercial	21,791,000	27,138,356	(5,347,356)	-19.7%	164,651,200	184,411,402	(19,760,202)	-10.7%
Multi-Family	29,362,400	28,762,020	600,380	2.1%	205,546,300	202,582,366	2,963,934	1.5%
Industrial	18,076,500	16,352,084	1,724,416	10.5%	99,763,000	111,166,888	(11,403,888)	-10.3%
Public	4,425,600	6,306,888	(1,881,288)	-29.8%	26,720,650	36,046,360	(9,325,710)	-25.9%
Irrigation	281,100	109,100	172,000	157.7%	353,900	193,301	160,599	83.1%
	<b>144,836,600</b>	<b>140,685,592</b>	<b>4,151,008</b>	<b>3.0%</b>	<b>986,157,650</b>	<b>1,002,723,207</b>	<b>(16,565,557)</b>	<b>-1.7%</b>

**Waukesha Water Utility  
Expense Analysis  
July 2020**

	CURRENT MONTH				YEAR TO DATE			
	ACTUAL'20	BUDGET'20	VARIANCE	%	ACTUAL'20	BUDGET'20	VARIANCE	%
<b>OPERATING EXPENSES:</b>								
Source	\$50,900.62	\$13,490.25	\$37,410.37	277.31 1	\$353,060.24	\$166,033.13	\$187,027.11	112.64
Pumping	74,305.83	94,684.78	(20,378.95)	(21.52) 2	496,823.56	569,783.64	(72,960.08)	(12.80)
Treatment	23,934.35	31,395.04	(7,460.69)	(23.76) 3	245,058.00	300,659.61	(55,601.61)	(18.49)
Distribution	82,888.36	108,879.75	(25,991.39)	(23.87) 4	542,342.53	661,475.41	(119,132.88)	(18.01)
Customer Service	16,294.54	25,106.09	(8,811.55)	(35.10)	89,417.30	115,907.50	(26,490.20)	(22.85)
Administrative	164,970.05	138,055.62	26,914.43	19.50 5	921,859.36	1,014,359.71	(92,500.35)	(9.12)
<b>Total</b>	<b>\$413,293.75</b>	<b>\$411,611.53</b>	<b>1,682.22</b>	<b>0.41</b>	<b>\$2,648,560.99</b>	<b>\$2,828,219.00</b>	<b>(179,658.01)</b>	<b>(6.35)</b>
<b>MANAGERS' MARGIN</b>	<b>490,941.17</b>	<b>656,975.08</b>	<b>(166,033.91)</b>	<b>(25.27)</b>	<b>3,760,547.15</b>	<b>4,155,156.29</b>	<b>(394,609.14)</b>	<b>(9.50)</b>
Depreciation	170,298.00	171,586.12	(1,288.12)	(0.75)	1,206,419.93	1,201,102.84	5,317.09	0.44
Tax Equivalent	165,492.65	165,492.65	0.00	0.00	1,158,448.55	1,158,448.55	0.00	0.00
Other Taxes	17,693.37	18,398.26	(704.89)	(3.83)	79,431.15	94,687.62	(15,256.47)	(16.11)
<b>TOTAL OPERATING EXPENSES</b>	<b>\$766,777.77</b>	<b>\$767,088.56</b>	<b>(310.79)</b>	<b>(0.04)</b>	<b>\$5,092,860.62</b>	<b>\$5,282,458.01</b>	<b>(189,597.39)</b>	<b>(3.59)</b>
<b>NON OPERATING INCOME&amp;(EXPENSE)</b>	<b>(203,413.34)</b>	<b>(271,972.89)</b>	<b>68,559.55</b>	<b>(25.21)</b>	<b>(1,395,729.88)</b>	<b>(1,403,092.19)</b>	<b>7,362.31</b>	<b>(0.52)</b>
<b>NET INCOME(LOSS)</b>	<b>(\$65,956.19)</b>	<b>\$29,525.16</b>	<b>(\$95,481.35)</b>	<b>(323.39)</b>	<b>(\$79,482.36)</b>	<b>\$297,825.09</b>	<b>(\$377,307.45)</b>	<b>(126.69)</b>

Notes

- 1 Source: Variance Relates to GL Project expense amortization approved with past rate order. Budget planned for a new rate case 3/1/2020 (\$49,291 vs. \$11,683 per month)
- 2 Pumping: Power is below budget by roughly \$8,500, with the remaining variance related to delayed labor related maintenance projects.
- 3 Treatment: Chemicals are under budget by \$3,000. Budgeted activities for cross-training employees has been pushed until later in the year.
- 4 Distribution: There was only one main break replacement and no street lateral replacements completed in July. Budgeted activities for flushing and leak detection have been pushed until later in the year. Also, locating administration activity was \$6,000 below budget this month.
- 5 Administrative: Employee Use of PTO was over budget by \$22,000; vehicle maintenance was over budget by \$7,000 as invoices for fleet maintenance and repairs in previous months were received in July. Both areas are still below budget for the year.

**WAUKESHA WATER UTILITY  
STATEMENT OF SOURCES AND USES OF CASH  
PERIOD ENDING JULY 31, 2020**

**Cash Balance - June 30, 2020**

\$29,838,184

**SOURCES:**

**Operations:**

Customers - water sales	\$930,679
Waste Water Utility - joint metering billing	62,450
Rent of utility property - cellular leases	12,418
Receipts on sewer bills	1,402,041
Receipts from return flow	341,720
Reimbursement from City for return flow expenses	668,503
Reimbursement from City for sewer construction costs	17,283
Other - miscellaneous	7,016
Total Cash From Operating Activities	\$3,442,110

**Capital and Related Financing Activities:**

Grants	
Contributions	661
Issuance of long-term debt	1,485,000
Sale of short-term debt	
Interest income	4,800
Total Cash From Capital/ Investing Activities	\$1,490,461

**Total Cash Receipts**

\$4,932,571

**USES:**

Salaries, wages, payroll taxes and benefits	\$354,623
Subcontracted and outside services	24,380
Disbursement to city for sewer transfer	
Disbursement to city for return flow transfer	
Pumping power	62,038
Purchase of materials and supplies	89,323
Tax equivalent - PILOT	
Acquisition of capital assets	1,612,278
Debt service - principal	
Debt service - interest	
Total Cash Used	\$2,142,642

**Net Change in Cash**

\$2,789,929

**Cash Balance - July 31, 2020**

\$32,628,113

**WAUKESHA WATER UTILITY  
BALANCE SHEET  
7/31/2020**

<u>ASSETS</u>	<u>THIS YEAR</u>
<b>CURRENT</b>	
CASH AND INVESTMENTS	\$29,756,975.83
ACCOUNTS RECEIVABLE	6,144,947.28
RECEIVABLE FROM SEWER REIMB	0.01
MATERIALS & SUPPLIES	462,019.55
OTHER CURRENT ASSETS	18,998.00
ACCRUED UTILITY REVENUE	0.00
TOTAL CURRENT ASSETS	<u>\$36,382,940.67</u>
<b>DEFERRED</b>	
DEFERRED ASSETS	<u>\$37,590,012.11</u>
TOTAL DEFERRED DEBITS	37,590,012.11
<b>RESTRICTED</b>	
DEBT PAYMENT ACCOUNT	\$1,314,362.64
DEBT RESERVE ACCOUNT	477,655.48
CONSTRUCTION FUND	153.88
TAX EQUIV RESERVE ACCOUNT	1,078,965.20
TOTAL RESTRICTED FUNDS	<u>\$2,871,137.20</u>
<b>LONG TERM</b>	
UTILITY PLANT IN SERVICE-NET	\$96,035,554.85
PROPERTY HELD FOR FUTURE USE	435,089.69
CONSTRUCTION WORK IN PROGRESS	3,168,088.91
RESTRICTED NET PENSION	<u>(478,201.00)</u>
TOTAL UTILITY PLANT	<u>\$99,160,532.45</u>
<b>TOTAL ASSETS</b>	<u><u>\$176,004,622.43</u></u>
 <b>LIABILITIES</b>	
<b>CURRENT</b>	
CUR PORTION BOND	1,876,661.51
NOTES PAYABLE	21,775,000.00
ACCOUNTS PAYABLE	1,285,958.72
PAYABLE TO OTHER FUNDS	5,773,893.27
CUSTOMER DEPOSITS	120,114.26
A/P MISCELLANEOUS	0.00
TAXES ACCRUED	1,180,421.06
INTEREST ACCRUED	595,206.34
EMPLOYEE WITHHOLDING	5,295.85
ACCRUED PAYROLL	0.00
ACCRUED VACATION	226,840.41
TOTAL CURRENT LIABILITIES	<u>\$32,839,391.42</u>
<b>DEFERRED CREDITS</b>	
CUSTOMER ADVANCES CONSTRUCTION	\$0.00
REGULATORY LIABILITY	652,944.70
OPEB LIABILITY	5,275,254.56
OTHER DEFERRED CREDITS	<u>3,312,222.01</u>
TOTAL DEFERRED CREDITS	\$9,240,421.27
<b>LONG-TERM</b>	
BONDS	\$58,651,456.25
 <b>EQUITY</b>	
CAPITAL PAID IN BY MUNICIPALITY	\$2,728,539.92
EQUITY FINANCED BY UTILITY	38,193,189.32
EQUITY FROM CONTRIBUTIONS	33,735,149.61
RESTRICTED EQUITY	695,957.00
NET PROFIT (LOSS)	<u>(79,482.36)</u>
TOTAL EQUITY	<u>\$75,273,353.49</u>
<b>TOTAL EQUITY AND LIABILITIES</b>	<u><u>\$176,004,622.43</u></u>

WWU  
TRANSMISSION AND DISTRIBUTION  
BUDGET VARIANCE ANALYSIS

Project	Project #	Description/Location	Budget	Current Estimate	PJC Total	Aldermanic District		Construction Completion
Hartwell - Wabash to Newhall & Oxford - Hartwell to East	M00532	Replace 2600 feet of 6-inch and 8-inch cast iron water main from 1929 with 8-inch ductile iron main on Hartwell Avenue from Wabash to Newhall, and on Oxford Road from Hartwell to East. The project is being done with the City Public Works Dept.		<b>\$ 884,592</b>	\$ 408,967	8	Elizabeth Moltzan	October 2020
						10	Steve Johnson	
N. Barstow Street and Riverfront Plaza Utility & Street Reconstruction	M00543	Replace approximately 4300 feet of existing 8" and 12" water main from 1909 - 1957 with 12-inch ductile iron on Barstow Street from Wisconsin to North, and on Riverfront Plaza from Broadway to Barstow. The project is being done with the City Public Works Dept.		<b>\$ 1,219,483</b>	\$ 1,093,980	11	Leonard Miller	October 2020
Roberta Avenue and Tenny Avenue Utility & Street Reconstruction	M00545	Replace 2800 feet of 12-inch cast iron pipe from 1951 with 12-inch PVC on Tenny Avenue from Roberta to Oakwood and on Roberta from East to Tenny. The project is being done with the City Public Works Dept.		<b>\$ 683,039</b>	\$ 531,368	10	Steve Johnson	October 2020
Scott Avenue Water Main Improvements	M00551	Replace 6-inch cast iron from 1924 - 1950 with 8-inch PVC on Wabash, Frame, and Harrison, from Scott Avenue to their terminating cul-de-sacs. The project is being done with the City Public Works Dept.		<b>\$ 368,625</b>	\$ 7,590	6	Jack Wells	October 2020
Oakmont to Pebble Valley Zone	TBD	Extend 12" water main through easement connecting Pebble Valley and Oakmont.		\$ 529,997	\$ -	14	Rick Lemke	TBD
Area 1 & 2 Flood Mitigation	M00548	Water Main Offsets for Storm Sewer		Not included in Original Budget	\$ 75,000	\$ 3,746	5	Peter Bartels
<i>Routine Projects</i>			<b>\$ 4,763,476</b>	<b>\$ 3,760,736</b>	<b>\$ 2,045,651</b>			
<i>Misc Routine</i>			<b>\$ 881,799</b>	<b>\$ 881,799</b>	<b>\$ 881,799</b>			
<b>Total Transmission &amp; Distribution</b>			<b>\$ 5,645,275</b>	<b>\$ 4,642,535</b>	<b>\$ 2,927,450</b>			

**Bold Totals are Based on Bids**

Status update

# Waukesha Water Utility

Future Water Supply

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August 18, 2020

This update is solely intended for the use of Waukesha Water Utility's internal management and is not intended to be and should not be used by any other parties without prior written consent from Baker Tilly Virchow Krause, LLP





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# Summary of Significant Events

## Scope and Objectives

Waukesha Water Utility (“WWU” or “Owner”) engaged Baker Tilly Virchow Krause, LLP (Baker Tilly, “we” or “our”) to perform construction audit services on the Future Water Supply project. Greeley and Hansen (“GH” or “PM”) is the Program Manager and Black & Veatch (“BV” or “CM”) is the Construction Manager engaged by the Owner.

The primary objective of this engagement is to verify whether project expenditures billed to Waukesha Water Utility are adequately supported, verifiable and appropriately allocated to the project.

## Current Period Significant Events

This section of the monthly interim report summarizes Audit Issues and Requests for Information during the current period. The project-to-date Audit Issues (AI) and Request for Information (RFI) logs are included as attachments with this document.

### Prior Period Request for Information

There was one request for information made during the prior period (RFI No. 038). The Highland Group, a subcontractor of Greeley and Hansen, submitted deed costs for reimbursement that exceeded the costs verified by the provided supporting documentation. Additional documentation was provided to verify the additional costs. This issue has been closed.

### Current Period Audit Issues

There were no Audit Issues identified during the current period.

### Current Period Request for Information

There were no requests for information made during the current period.

### Preconstruction Meetings

During the current period we attended preconstruction meetings to discuss the scope of work for contract packages 5 and 6. Contract documents and payment terms were discussed at these meetings. We are developing our continuous monitoring audit program, which will be based on information gathered at the meetings.



# Audit progress

## Audit Status Summary

### **A. Items Completed**

Baker Tilly has completed the following tasks:

- Audit kick off meeting on to review project scope and communication expectations
- Attended PM/CM request for qualifications (RFQ) review and short list selection on August 4, 2016
- PM/CM finalist interview preparation with WWU on September 26, 2016
- Attended PM/CM interviews and selection meeting on September 29, 2016
- Reviewed Greeley and Hanson's Phase I cost proposal. The review memorandum was delivered to WWU On October 19, 2016.
- Attended the following workshops
  - High Level Program Cost Validation - November 11, 2016
  - Financial Model – Preliminary Workshop - November 11, 2016
  - Financial Management Platform - November 18, 2016
  - Financial Management Conceptual Designs Workshop - December 6, 2016
- Reviewed the Phase 2 Estimate of Fees from Greeley and Hansen for work through the period ending December 31, 2017
- Attendance at bi-weekly progress meetings
- Attendance at CM interviews on February 28, 2018
- Attendance at pre-con meetings for contract packages 5 and 6
- Reviewed Greeley and Hanson, LLC Invoice Nos. 1 through 47
- Reviewed Black & Veatch Phase 1 Invoices
- Reviewed Black & Veatch Phase 2 (2019) Invoice Nos. 1 through 13
- Reviewed Black & Veatch Phase 2 (2020) Invoice Nos. 1 through 7

### **B. Items in Process**

There are no items currently in process

### **C. Items to be Completed Next Period**

The following items will be completed next period.

- Review of Greeley and Hansen Invoice No. 48
- Review of Black & Veatch Phase 2 (2020) Invoice No. 8
- Review of contract package 5 and 6 invoices as necessary

### **D. Events Hindering Progress**

There are no events hindering audit progress at this time.

### **E. Proposed Changes to Scope**

There are no proposed changes to our scope at this time.



## Budget update

Original project budget	\$ 395,000.00
Change Order No. 1	\$ 2,500.00
Change Order No. 2	<u>\$ 64,680.00</u>
Current project budget	\$ 462,180.00
Total billed as of 08/18/2020	<u>\$ 172,480.25</u>
Remaining project budget	\$ 289,699.75

## Staffing Update

Estimated hours	2,400.00
Total hours as of 08/18/2020	1,069.50

## Billing Update

Outstanding invoices:

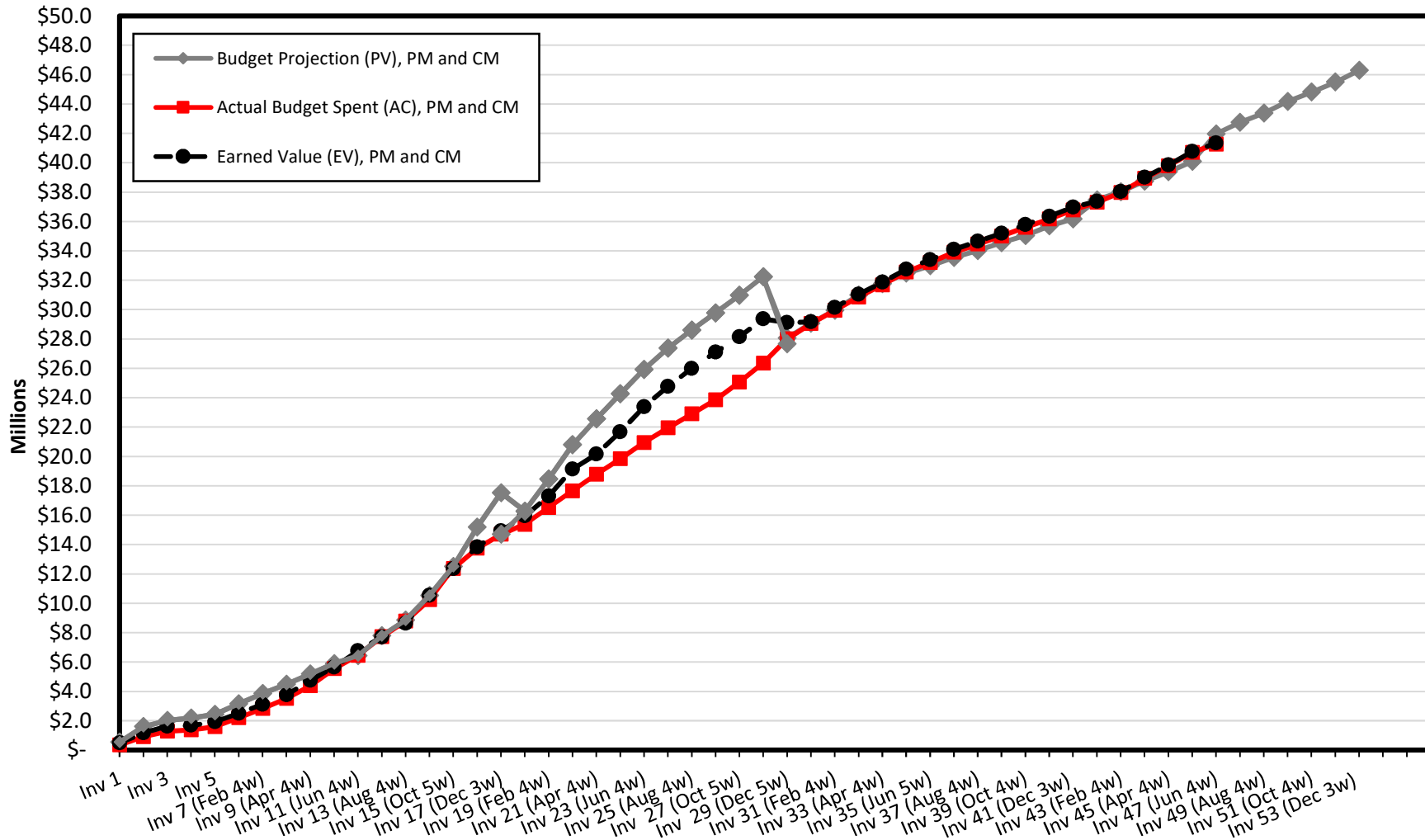
- BT1663668 - \$3,165 – 8/3/2020



## **Exhibit 5 – Earned Value Analysis**



**Great Lakes Water Supply Program PM/CM**  
**Program**  
**Earned Value Chart**  
**Phase 1 and 2 (Invoice No. 47)**  
**(Excluding Allowances and Contingencies)**



**% Spent 96.8%**

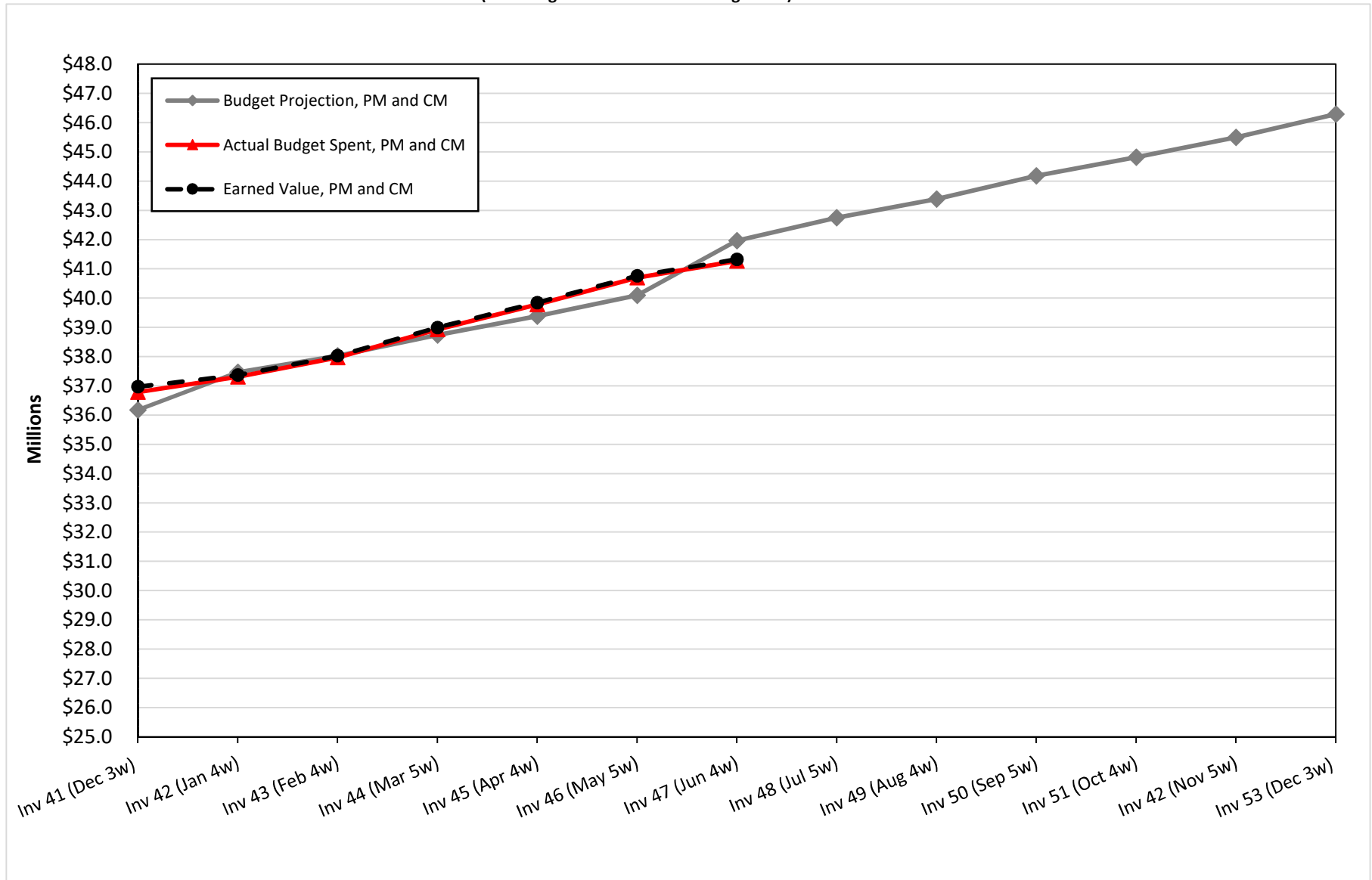
**Actual Budget Spent \$39,334,360**

**Schedule Performance Index (SPI) 0.99**

**Cost Performance Index (CPI) 1.00**

*Note: Budget associated with Task 3-300, 5-200 and 5-300 water quality scope has been removed.*

Great Lakes Water Supply Program PM/CM Program  
 Phase 2 Calendar Year 2020 Earned Value Chart  
 Phase 1 and 2 (Invoice No. 47)  
 (Excluding Allowances and Contingencies)



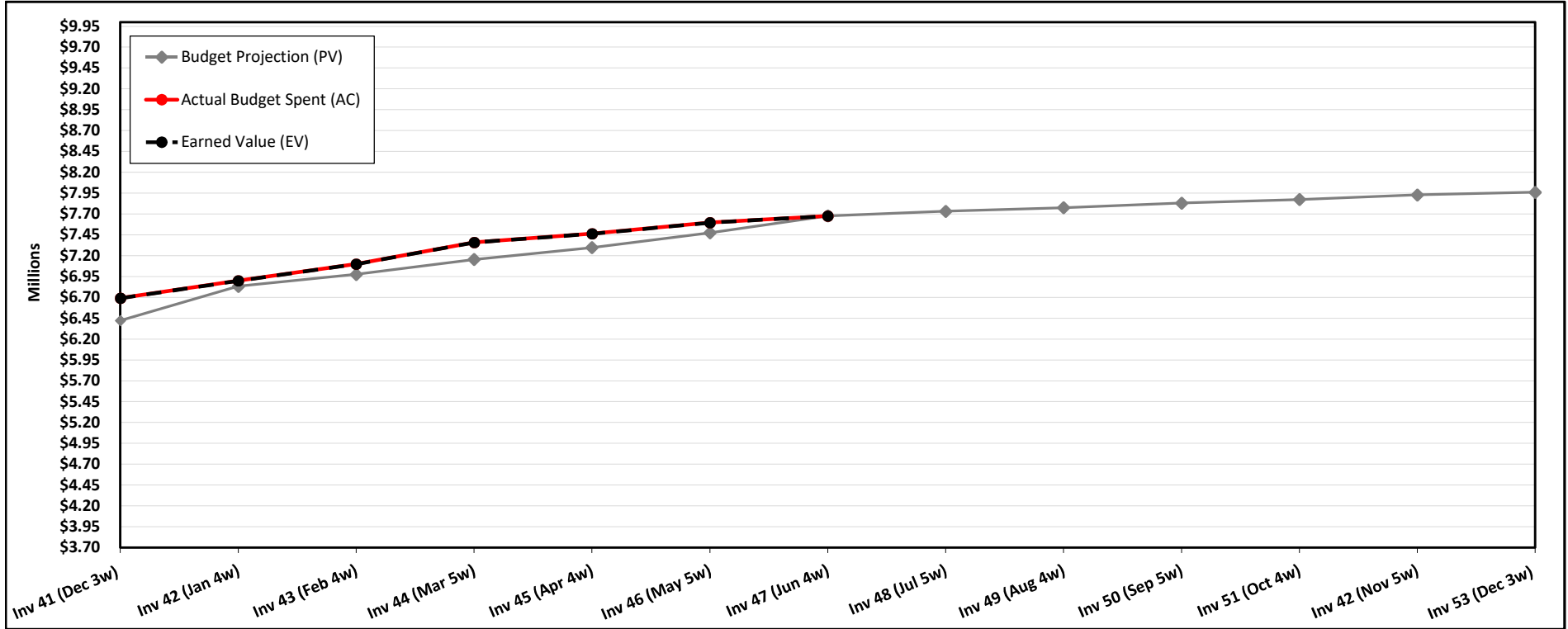
**% Spent 96.8%**

**Actual Budget Spent \$39,334,360**

**Schedule Performance Index (SPI) 0.99**

**Cost Performance Index (CPI) 1.00**

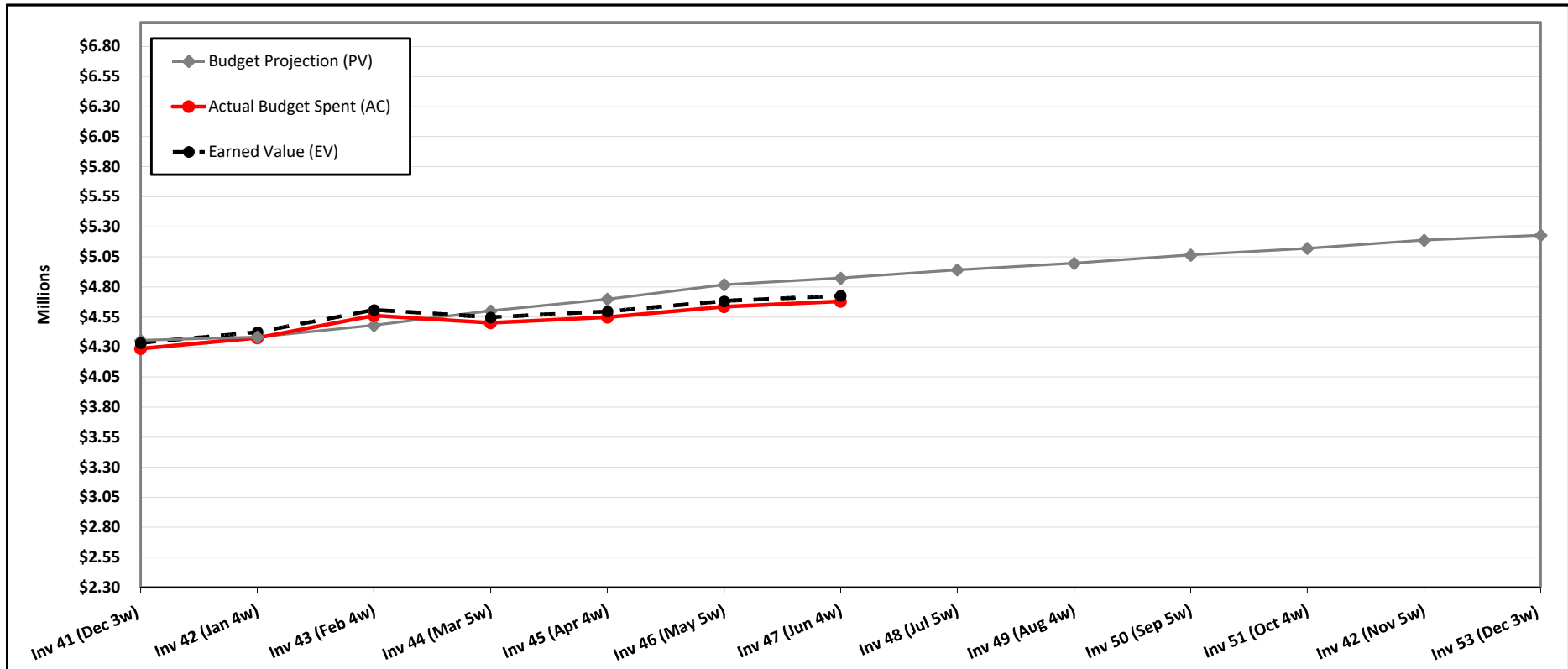
Note: Budget associated with Task 3-300, 5-200 and 5-300 water quality scope has been removed.



Earned Value Calculations	
Budget at Completion <sup>(BAC)(1)</sup> (BAC)	\$ 7,959,692
Estimate to Complete <sup>(ETC1)</sup> (ETC1=EAC1-AC)	\$ 282,030
Cost Variance <sup>(CV)</sup> (CV=EV-AC)	\$ -
Schedule Variance <sup>(SV)</sup> (SV=EV-PV)	\$ -
Cost Performance Index <sup>(CPI)</sup> (CPI=EV/AC)	1.00
Schedule Performance Index <sup>(SPI)</sup> (SPI=EV/PV)	1.00
Cost /Schedule Index <sup>(CSI)</sup> (CSI=CPI x SPI)	1.00
Estimate at Completion <sup>(EAC1)</sup> (EAC1=BAC/CPI)	\$ 7,959,691.98
Variance at Completion <sup>(VAC1)</sup> (VAC1=BAC-EAC1)	\$ -

Task 1	Program Management Plan/Progress
	<ul style="list-style-type: none"> <li>Prepared and submitted Invoice No. 46; updated the Financial Management Dashboard and Report for Invoice No. 46.</li> <li>Held thirteen (13) Program Team meetings.</li> <li>Updated Program schedule and Risk Register.</li> <li>Support has been provided for permitting of the BPS Site in the City of New Berlin.</li> <li>A limited reopening to the application was prepared and submitted to PSC for the alternate BPS site and route.</li> </ul>

Task 1	Program Management Challenges
	<ul style="list-style-type: none"> <li>The second phase of the Water Infrastructure Finance and Innovation Act (WIFIA) loan approval process will need to be completed in order to secure low interest funding for the Program.</li> <li>The PSC issued the Notice of Proceeding on the MWW PSC CA Application and several parties have intervened. The testimony and hearing schedule proposed by PSC staff shows the commissioners making a decision in summer 2020. This could delay bidding for Oklahoma Pumping Station.</li> <li>Plan Commission Approval for the BPS and Storage Facilities in New Berlin has required more effort than anticipated.</li> </ul>



Earned Value Calculations	
Budget at completion <sup>(BAC)</sup> (BAC)	\$ 5,045,241
Estimate to Complete <sup>(ETC1)</sup> (ETC1=EAC1-AC)	\$ 313,627
Cost Variance <sup>(CV)</sup> (CV=EV-AC)	\$ 48,858
Schedule Variance <sup>(SV)</sup> (SV=EV-PV)	\$ (145,159)
Cost Performance Index <sup>(CPI)</sup> (CPI=EV/AC)	1.01
Schedule Performance Index <sup>(SPI)</sup> (SPI=EV/PV)	0.97
Cost /Schedule Index <sup>(CSI)</sup> (CSI=CPI x SPI)	0.98
Estimate at Completion <sup>(EAC1)</sup> (EAC1=BAC/CPI)	\$ 4,993,108.54
Variance at Completion <sup>(VAC1)</sup> (VAC1=BAC-EAC1)	\$ 52,132.58

**Task 2 Programmatic Support Services Plan/Progress**

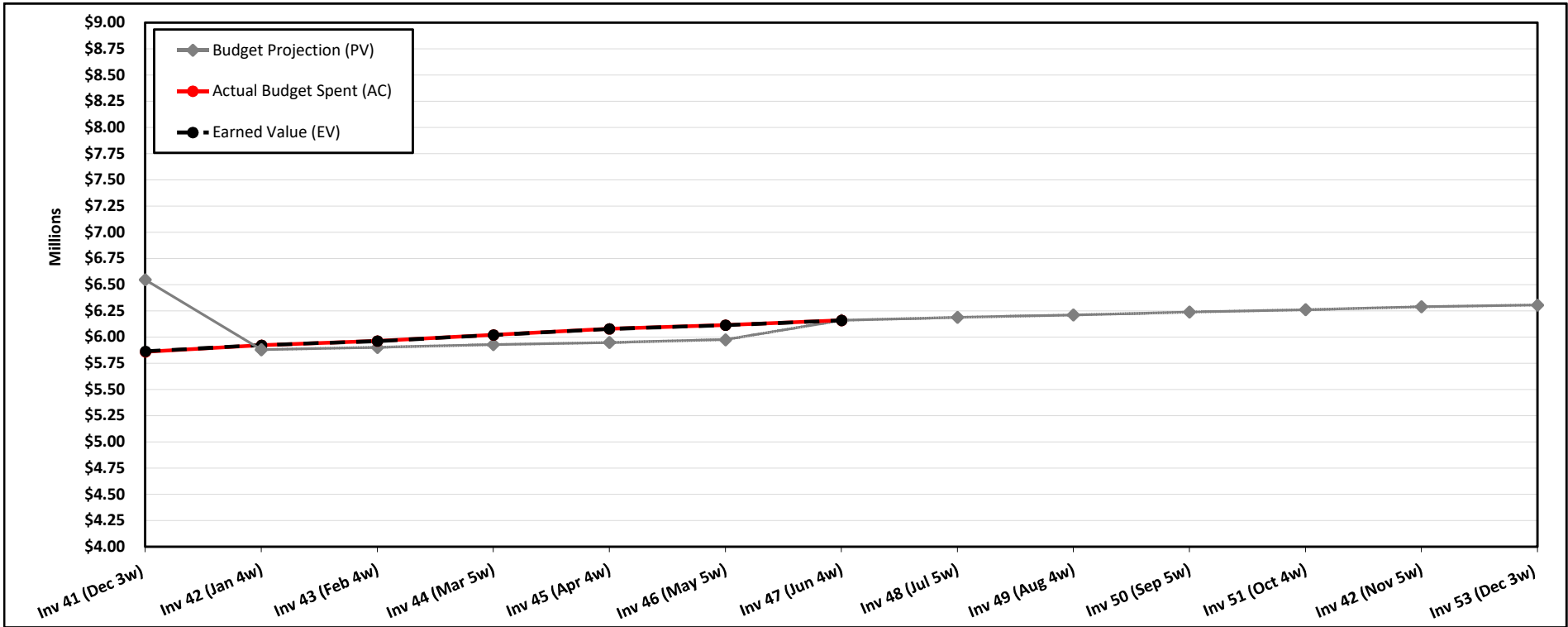
- Finalize development of the draft of the Rules of Engagement plan.
- Continued coordination with PSST and project team to finalize in-field and hotline contact protocols and tracking.
- Reviewed and provided in-depth edits to BPS mailer and participated in associated implementation correspondence.
- Drafted a press release on the Common Council's award of bids for two segments of the Return Flow Pipeline, as well as for the Phosphorus and Return Flow Pumping Station at Waukesha's Clean Water Plant.

**Task 2 Programmatic Support Services Challenges**

- Negative public perception of the Booster Pumping Station site has affected the New Berlin Plan Commission approval regarding amending the Future Land Use Map within the City's Comprehensive Plan and rezoning of the Booster Pumping Station and has required additional PSS support.



Great Lakes Water Supply Program  
Phase 1 and 2  
Task 3 - Permitting Earned Value Chart  
(Excluding Allowances and Contingencies)

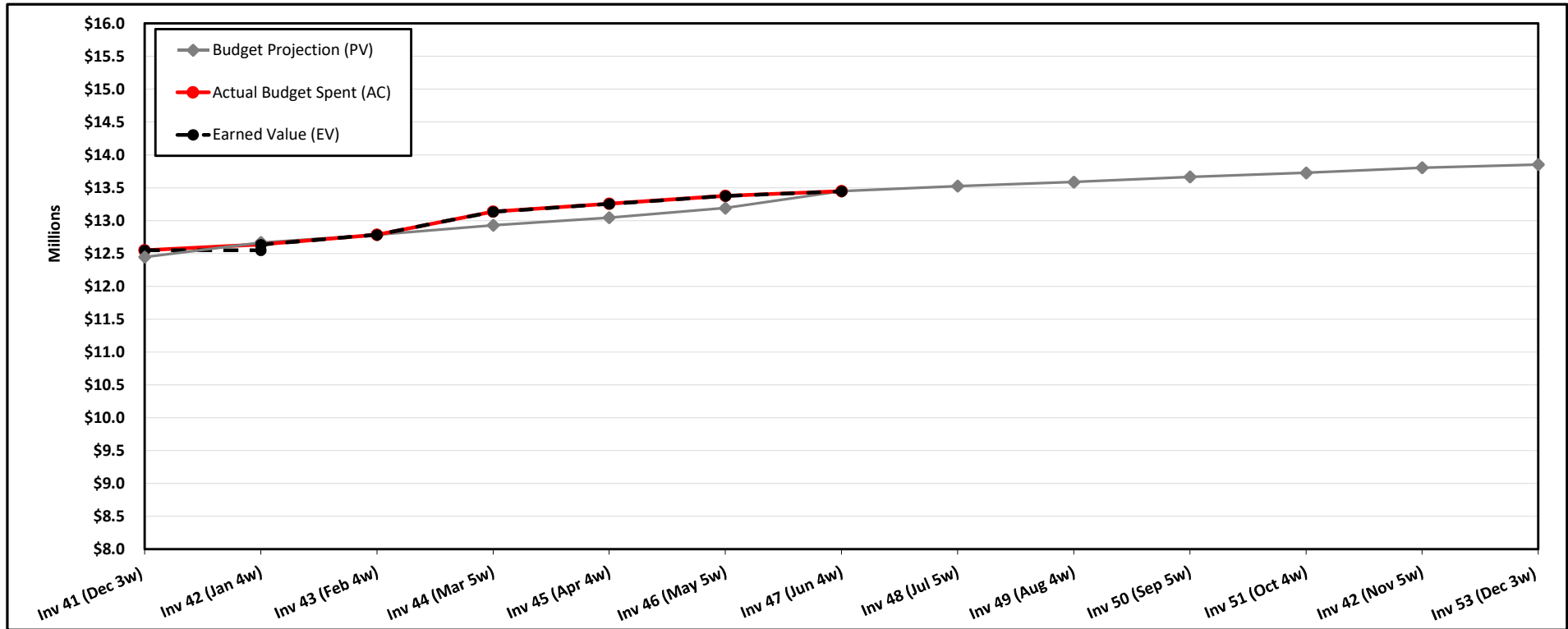


Note: The Task 3 amount for Invoice 5 was reported incorrectly in the previous version of this Report. The correct cumulative amount is \$263.96 lower.  
The Task 3 Budget at completion amount was revised to reflect Task Authorizations and contract amendments

Earned Value Calculations	
Budget at completion <sup>(BAC(1))</sup> (BAC)	\$ 6,311,914
Estimate to Complete <sup>(ETC1)</sup> (ETC1=EAC1-AC)	\$ 151,559
Cost Variance <sup>(CV)</sup> (CV=EV-AC)	\$ -
Schedule Variance <sup>(SV)</sup> (SV=EV-PV)	\$ -
Cost Performance Index <sup>(CPI)</sup> (CPI=EV/AC)	1.00
Schedule Performance Index <sup>(SPI)</sup> (SPI=EV/PV)	1.00
Cost /Schedule Index <sup>(CSI)</sup> (CSI=CPI x SPI)	1.00
Estimate at Completion <sup>(EAC1)</sup> (EAC1=BAC/CPI)	\$ 6,311,913.56
Variance at Completion <sup>(VAC1)</sup> (VAC1=BAC-EAC1)	\$ -

Task 3 Permitting Plan/Progress
<ul style="list-style-type: none"> <li>Submitted Wetland and Waterway Permit Application Amendment to USACE and WDNR.</li> <li>Continued to work on Diversion document.</li> <li>Continued chloride reduction program.</li> </ul>

Task 3 Permitting Challenges
<ul style="list-style-type: none"> <li>Extended agency review timelines may delay bidding.</li> </ul>



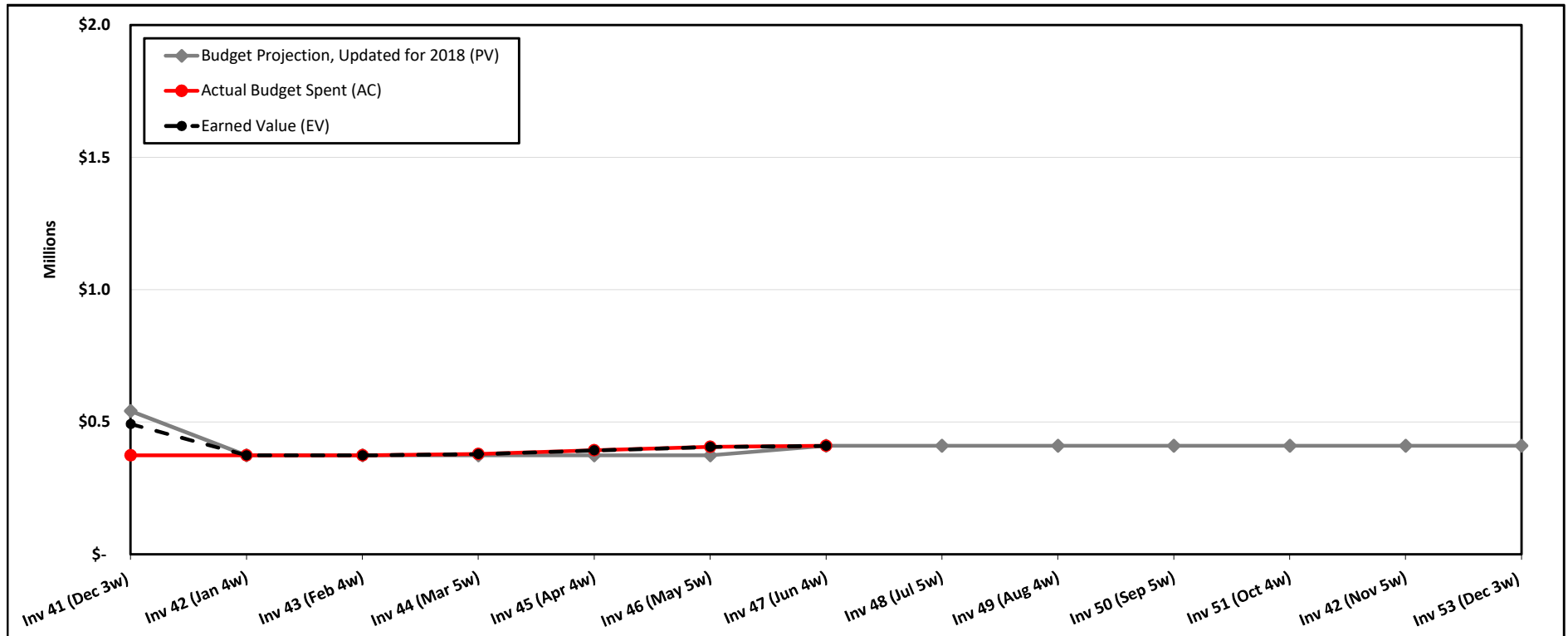
Note: The Task 4 Budget at completion amount was revised to reflect Task Authorizations and contract amendments

Earned Value Calculations	
Budget at completion <sup>(BAC)</sup> (BAC)	\$ 13,847,727
Estimate to Complete <sup>(ETC1)</sup> (ETC1=EAC1-AC)	\$ 399,541
Cost Variance <sup>(CV)</sup> (CV=EV-AC)	\$ -
Schedule Variance <sup>(SV)</sup> (SV=EV-PV)	\$ -
Cost Performance Index <sup>(CPI)</sup> (CPI=EV/AC)	1.00
Schedule Performance Index <sup>(SPI)</sup> (SPI=EV/PV)	1.00
Cost /Schedule Index <sup>(CSI)</sup> (CSI=CPI x SPI)	1.00
Estimate at Completion <sup>(EAC1)</sup> (EAC1=BAC/CPI)	\$ 13,847,727.11
Variance at Completion <sup>(VAC1)</sup> (VAC1=BAC-EAC1)	\$ -

Task 4 Route Study and Pipeline Plan/Progress
<ul style="list-style-type: none"> <li>In light of the CUP denial in the City of New Berlin, some field investigations have occurred to investigate whether an alternate to the preferred site exists for the BPS Site.</li> <li>Submitted Phase II Reports for Sites 9.11 and 10.5/10.6 to WDNR.</li> <li>Alternate Water Supply Pipeline Phase I Archaeological Survey Report was submitted.</li> <li>Evaluated Rusty Patched Bumble Bee (RPBB) habitat along pipeline route and submitted final RPBB plan.</li> <li>Responded to comments from WDNR on Contract Package 2A and provide updated drawing based on comments.</li> <li>Held Contract Package 2B 75% Design Workshop.</li> <li>Contract Packages 5 and 6 were awarded.</li> <li>Notice to Proceed was provided to the contractor for Contract Packages 5 and 6.</li> <li>Contract Packages 5 and 6 Conformed Drawings were submitted to WWU.</li> </ul>

Task 4 Route Study and Pipeline Challenges
<ul style="list-style-type: none"> <li>The acquisition process for currently identified easements is in progress. Additional easements will impact the Program schedule.</li> </ul>

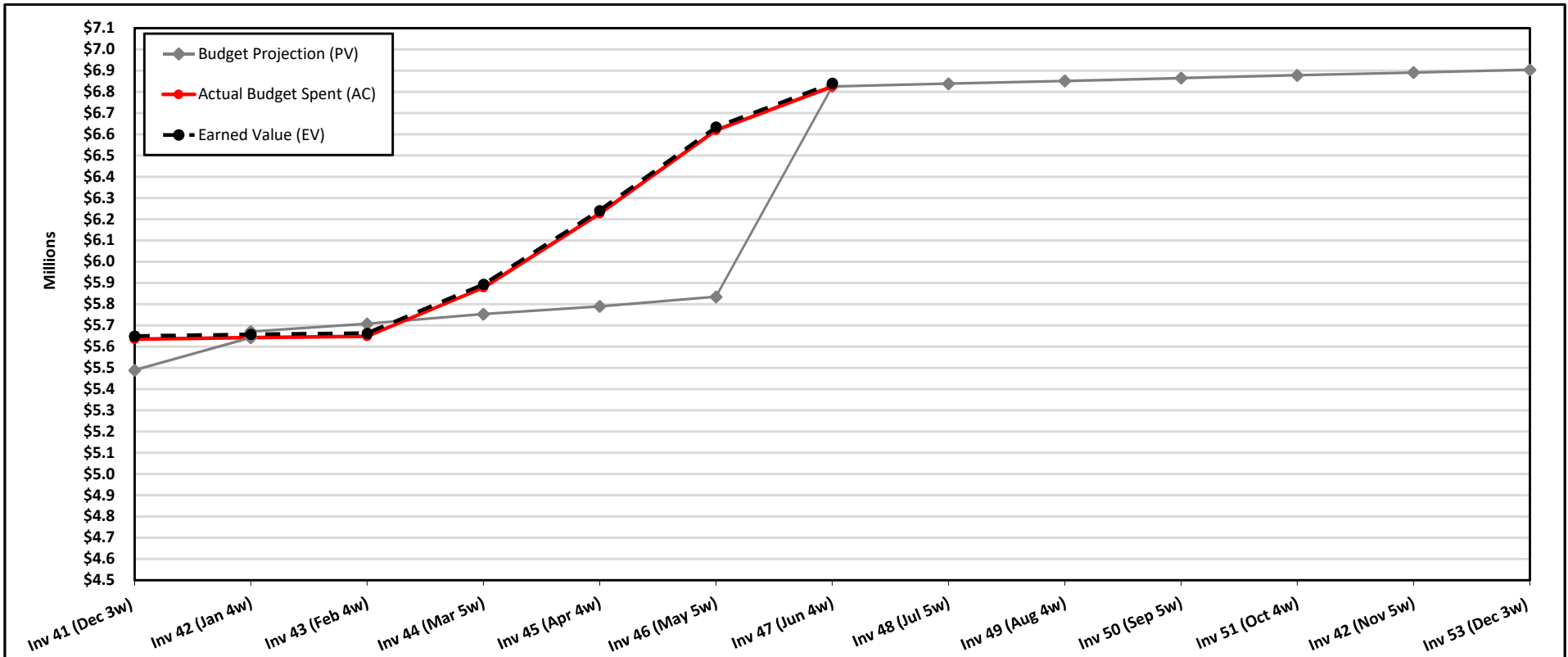




Earned Value Calculations	
Budget at completion <sup>(BAC)(1)</sup> (BAC)	\$ 409,301
Estimate to Complete <sup>(ETC1)</sup> (ETC1=EAC1-AC)	\$ (598)
Cost Variance <sup>(CV)</sup> (CV=EV-AC)	\$ -
Schedule Variance <sup>(SV)</sup> (SV=EV-PV)	\$ -
Cost Performance Index <sup>(CPI)</sup> (CPI=EV/AC)	1.00
Schedule Performance Index <sup>(SPI)</sup> (SPI=EV/PV)	1.00
Cost /Schedule Index <sup>(CSI)</sup> (CSI=CPI x SPI)	1.00
Estimate at Completion <sup>(EAC1)</sup> (EAC1=BAC/CPI)	\$ 409,300.73
Variance at Completion <sup>(VAC1)</sup> (VAC1=BAC-EAC1)	\$ -

Task 5 Distribution System Plan/Progress
<ul style="list-style-type: none"> <li>Completed supply capacity, storage, fire flow, and water age simulations with the new water supply connection.</li> <li>Summarized results in color-coded figures of pressure, water age, and plots of tank levels and pump and system curves.</li> <li>Communicated results and gained consensus on results with WWU.</li> </ul>

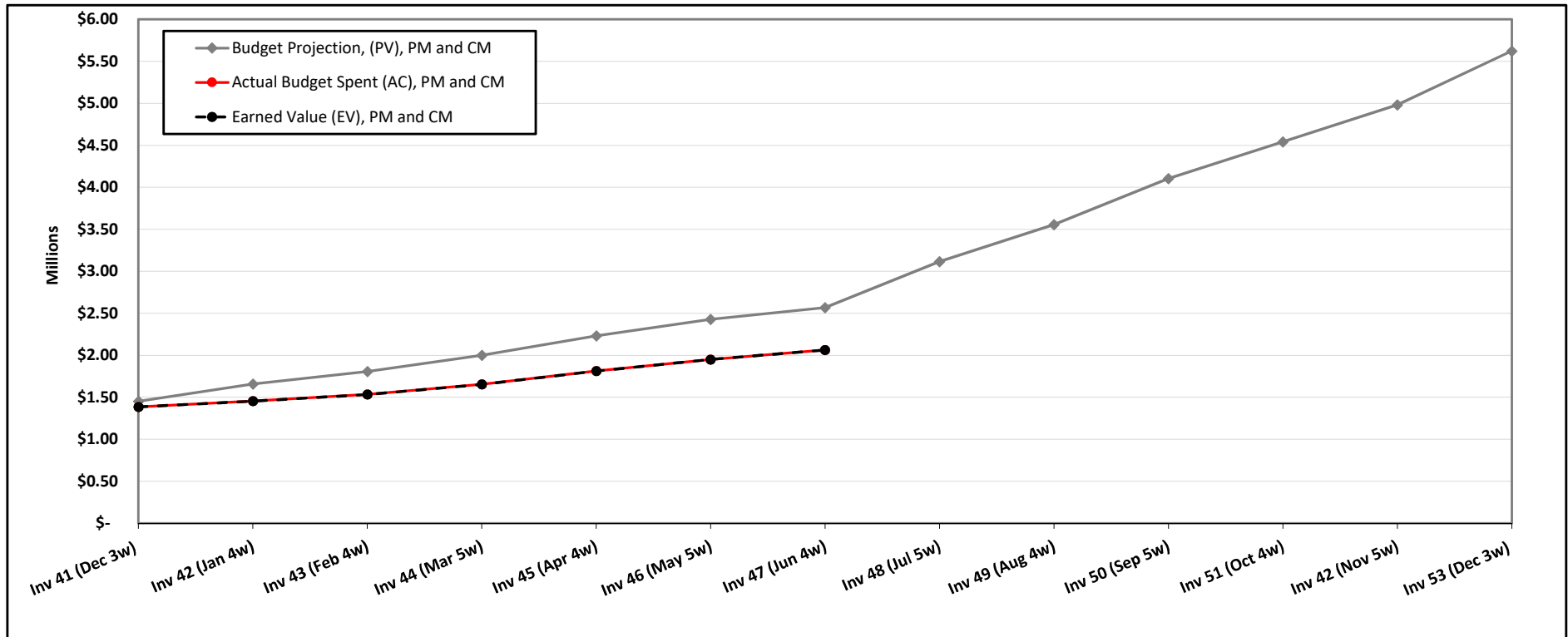
Task 5 Distribution System Challenges
<ul style="list-style-type: none"> <li>No Challenges</li> </ul>



Earned Value Calculations	
Budget at completion <sup>(BAC)(1)</sup> (BAC)	\$ 6,905,080
Estimate to Complete <sup>(ETC1)</sup> (ETC1=EAC1-AC)	\$ 63,689
Cost Variance <sup>(CV)</sup> (CV=EV-AC)	\$ 15,583
Schedule Variance <sup>(SV)</sup> (SV=EV-PV)	\$ 15,583
Cost Performance Index <sup>(CPI)</sup> (CPI=EV/AC)	1.00
Schedule Performance Index <sup>(SPI)</sup> (SPI=EV/PV)	1.00
Cost /Schedule Index <sup>(CSI)</sup> (CSI=CPI x SPI)	1.00
Estimate at Completion <sup>(EAC1)</sup> (EAC1=BAC/CPI)	\$ 6,889,351.38
Variance at Completion <sup>(VAC1)</sup> (VAC1=BAC-EAC1)	\$ 15,728.53

Task 6 Pump Stations, Storage and Chemical Treatment Plan/Progress
<ul style="list-style-type: none"> <li>In light of the CUP denial in the City of New Berlin, some field investigations have occurred to investigate whether an alternate to the preferred site exists for the BPS Site.</li> <li>Submitted soil boring logs for alternative BPS Site.</li> <li>Started the Geotechnical Report for the alternate BPS Site.</li> <li>Contract Package 3 75% Design Submittal for the alternate BPS Site was submitted to WWU.</li> <li>Contract Package 3A was further developed.</li> <li>Continued coordination with MWW on the design for the Oklahoma Pumping Station.</li> </ul>

Task 6 Pump Stations, Storage and Chemical Treatment Challenges
<ul style="list-style-type: none"> <li>City of New Berlin denied amending the Future Land Use Map within the City's Comprehensive Plan and rezoning of the Booster Pumping Station. New conditional use approval has been submitted to the City of New Berlin. Public hearing occurred on November 4, 2019 and voting on December 2, 2019. Legal proceedings have been pursued against the City of New Berlin. A contract amendment is required to redesign the BPS Site and will be approved at the June Waukesha Water Utility Commission Meeting.</li> </ul>



Earned Value Calculations	
Budget at completion <sup>(BAC(1))</sup> (BAC)	\$ 2,496,413
Estimate to Complete <sup>(ETC1)</sup> (ETC1=EAC1-AC)	\$ 2,363,298
Cost Variance <sup>(CV)</sup> (CV=EV-AC)	\$ 0
Schedule Variance (SV) (SV=EV-PV)	\$ (109,524)
Cost Performance Index <sup>(CPI)</sup> (CPI=EV/AC)	1.00
Schedule Performance Index <sup>(SPI)</sup> (SPI=EV/PV)	0.55
Cost /Schedule Index <sup>(CSI)</sup> (CSI=CPI x SPI)	0.55
Estimate at Completion <sup>(EAC1)</sup> (EAC1=BAC/CPI)	\$ 2,496,412.25
Variance at Completion <sup>(VAC1)</sup> (VAC1=BAC-EAC1)	\$ 0.83

Task 7 Construction and Construction Management Plan/Progress
<ul style="list-style-type: none"> <li>Finalized Construction Phase deliverables, including project specific QA/QC Manual, Procedures Manual, PMIS, and Health and Safety Plan.</li> <li>Setup GPS unit for Program.</li> <li>Performed constructability review of CP2B documents.</li> <li>Held PMIS training.</li> <li>Hold preconstruction meetings for CP5 and CP6.</li> <li>Hold additional Contractor training.</li> <li>Hold additional Contractor, Owner, PM Team, and CM Team PMIS training.</li> <li>Perform constructability review of CP2A documents.</li> <li>Perform constructability review of CP3 documents</li> </ul>

Task 7 Construction and Construction Management Challenges
<ul style="list-style-type: none"> <li>COVID-19 related factors including limited travel and limited in-person meeting attendance.</li> </ul>