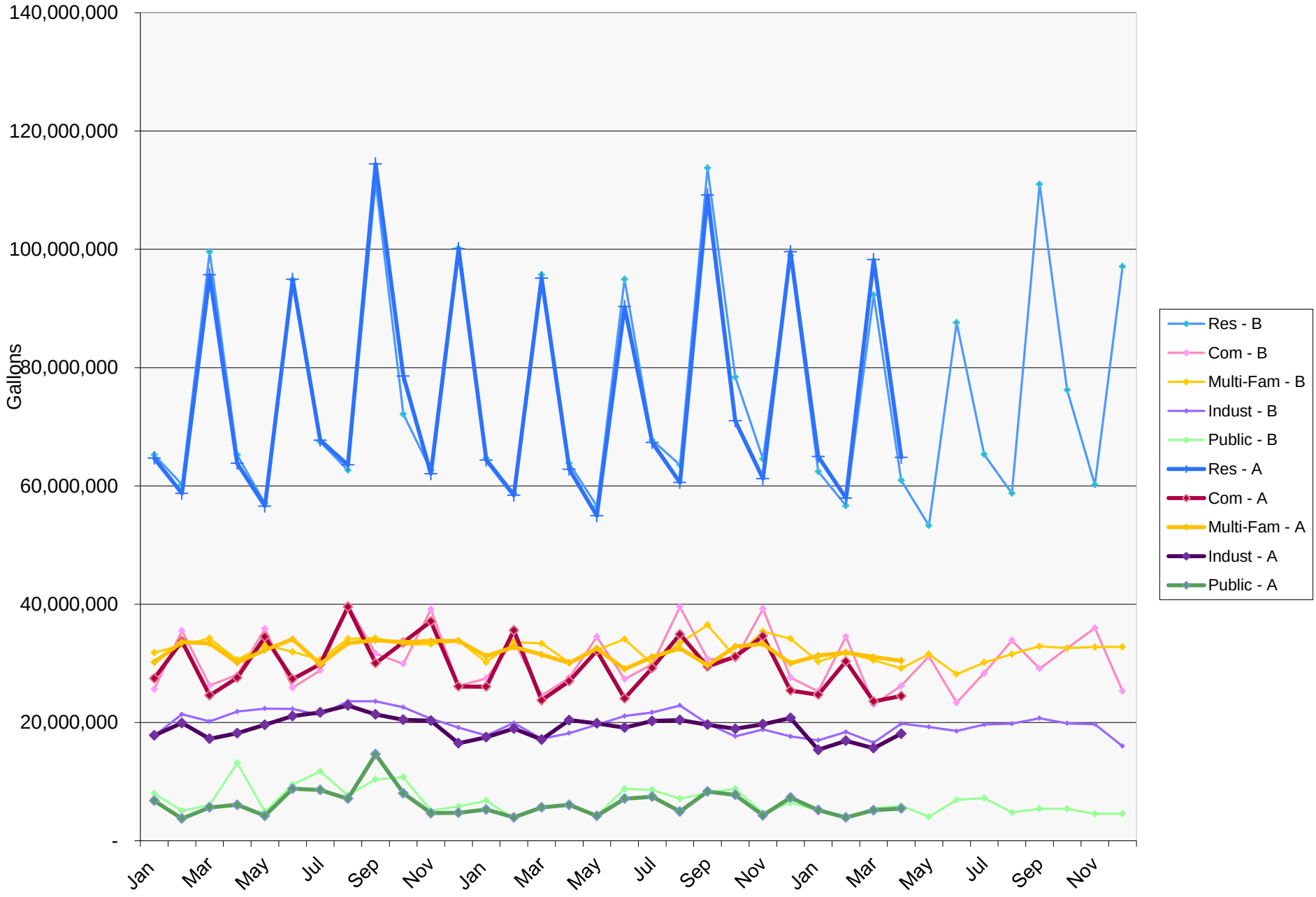
WAUKESHA WATER UTILITY
STATEMENT OF REVENUES & EXPENSES
MONTH ENDED 4/30/2018

	CURRENT MONTH				YEAR TO DATE				ANNUAL BUDGET
	ACTUAL'18	BUDGET'18	VARIANCE	%	ACTUAL'18	BUDGET'18	VARIANCE	%	
OPERATING REVENUES:									
Residential	$358,236.51	$346,185.73	$12,050.78	3.48	$1,544,407.35	$1,541,527.93	$2,879.42	0.19	$4,935,965.56
Commercial	104,440.09	116,550.99	(12,110.90)	(10.39)	432,205.20	475,955.06	(43,749.86)	(9.19)	1,511,321.72
Industrial	62,943.81	69,115.23	(6,171.42)	(8.93)	228,829.07	252,559.89	(23,730.82)	(9.40)	790,195.60
Public	23,039.44	24,293.94	(1,254.50)	(5.16)	83,063.05	85,962.55	(2,899.50)	(3.37)	302,092.85
Multi Family	131,188.87	129,495.37	1,693.50	1.31	516,776.07	531,132.10	(14,356.03)	(2.70)	1,618,382.44
Irrigation	2,410.88	0.00	2,410.88	0.00	4,383.36	0.00	4,383.36	0.00	0.00
Total Metered Sales	$682,259.60	$685,641.26	($3,381.66)	(0.49)	$2,809,664.10	$2,887,137.53	($77,473.43)	(2.68)	$9,157,958.17
Private Fire Capacity	$21,201.62	$18,417.44	$2,784.18	15.12	$78,265.09	$74,327.02	$3,938.07	5.30	$222,476.02
Public Fire Capacity	163,114.63	160,674.70	2,439.93	1.52	664,204.02	689,878.74	(25,674.72)	(3.72)	2,113,211.26
Other Operating Revenues	672,556.02	66,043.42	606,512.60	918.35	136,087.13	147,955.61	(11,868.48)	(8.02)	473,981.97
TOTAL OPERATING REVENUES	$1,539,131.87	$930,776.82	$608,355.05	65.36	$3,688,220.34	$3,799,298.90	($111,078.56)	(2.92)	$11,967,627.42
OPERATING EXPENSES:									
Source	$50,213.81	$50,778.77	($564.96)	(1.11)	$201,063.11	$203,115.08	($2,051.97)	(1.01)	$680,345.28
Pumping	69,555.72	85,775.05	(16,219.33)	(18.91)	308,997.35	353,787.67	(44,790.32)	(12.66)	1,071,398.85
Treatment	37,599.99	32,890.66	4,709.33	14.32	136,388.05	155,562.64	(19,174.59)	(12.33)	491,137.92
Distribution	75,941.55	83,955.11	(8,013.56)	(9.55)	377,542.55	360,284.19	17,258.36	4.79	1,337,137.56
Customer Service	12,569.51	9,074.33	3,495.18	38.52	60,774.49	36,391.32	24,383.17	67.00	127,755.52
Administrative	80,142.50	115,179.70	(35,037.20)	(30.42)	535,082.71	576,381.11	(41,298.40)	(7.17)	1,584,571.00
Total	$326,023.08	$377,653.62	(51,630.54)	(13.67)	$1,619,848.26	$1,685,522.01	(65,673.75)	(3.90)	$5,292,346.13
MANAGERS' MARGIN	1,213,108.79	553,123.20	659,985.59	119.32	2,068,372.08	2,113,776.89	($45,404.81)	(2.15)	6,675,281.29
Depreciation	152,025.89	152,003.45	22.44	0.01	611,009.08	608,013.80	2,995.28	0.49	1,824,041.40
Tax Equivalent	153,174.20	153,174.20	0.00	0.00	612,696.80	612,696.80	0.00	0.00	1,838,090.40
Other Taxes	11,279.27	12,124.45	(845.18)	(6.97)	49,918.90	48,497.80	1,421.10	2.93	158,227.20
TOTAL OPERATING EXPENSES	$642,502.44	$694,955.72	($52,453.28)	(7.55)	$2,893,473.04	$2,954,730.41	($61,257.37)	(2.07)	$9,112,705.13
TOTAL OPERATING INCOME(LOSS)	$896,629.43	$235,821.10	$660,808.33	280.22	$794,747.30	$844,568.49	($49,821.19)	(5.90)	$2,854,922.29
NON OPERATING INCOME&(EXPENSE)	(236,037.82)	(301,059.79)	65,021.97	(21.60)	(512,111.26)	(715,296.02)	203,184.76	(28.41)	(467,892.24)
NET INCOME(LOSS)	$660,591.61	($65,238.69)	$725,830.30	(1112.58)	$282,636.04	$129,272.47	$153,363.57	118.64	$2,387,030.05

WWU
Billed Gallons
Actual v Budget
2016 - 2018



WAUKESHA WATER UTILITY
BALANCE SHEET
4/30/2018

ASSETS	**THIS YEAR**
CURRENT	
CASH AND INVESTMENTS	$22,106,380.36
ACCOUNTS RECEIVABLE	6,000,714.12
RECEIVABLE FROM SEWER REIMB	0.01
MATERIALS & SUPPLIES	568,424.70
OTHER CURRENT ASSETS	0.00
ACCRUED UTILITY REVENUE	0.00
TOTAL CURRENT ASSETS	$28,675,519.19
DEFERRED	
DEFERRED ASSETS	$20,170,768.88
TOTAL DEFERRED DEBITS	20,170,768.88
RESTRICTED	
DEBT PAYMENT ACCOUNT	$459,208.37
DEBT RESERVE ACCOUNT	476,245.96
CONSTRUCTION FUND	147.81
TAX EQUIV RESERVE ACCOUNT	1,231,625.84
TOTAL RESTRICTED FUNDS	$2,167,227.98
LONG TERM	
UTILITY PLANT IN SERVICE-NET	$91,135,881.23
PROPERTY HELD FOR FUTURE USE	435,089.69
CONSTRUCTION WORK IN PROGRESS	486,974.08
RESTRICTED NET PENSION	(120,942.00)
TOTAL UTILITY PLANT	$91,937,003.00
TOTAL ASSETS	$142,950,519.05
LIABILITIES	
CURRENT	
CUR PORTION BOND	610,000.00
NOTES PAYABLE	27,285,000.00
ACCOUNTS PAYABLE	1,436,635.97
PAYABLE TO OTHER FUNDS	2,891,379.14
CUSTOMER DEPOSITS	190,118.23
A/P MISCELLANEOUS	0.00
TAXES ACCRUED	1,222,836.00
INTEREST ACCRUED	81,632.31
EMPLOYEE WITHHOLDING	14,697.41
ACCRUED PAYROLL	50,976.00
ACCRUED VACATION	236,087.81
TOTAL CURRENT LIABILITIES	$34,019,362.87
DEFERRED CREDITS	
CUSTOMER ADVANCES CONSTRUCTION	$0.00
REGULATORY LIABILITY	1,082,932.66
OPEB LIABILITY	3,941,978.17
OTHER DEFERRED CREDITS	2,953,825.84
TOTAL DEFERRED CREDITS	$7,978,736.67
LONG-TERM	
BONDS	$27,612,939.51
EQUITY	
CAPITAL PAID IN BY MUNICIPALITY	$2,669,743.20
EQUITY FINANCED BY UTILITY	36,520,472.56
EQUITY FROM CONTRIBUTIONS	33,170,671.20
RESTRICTED EQUITY	695,957.00
NET PROFIT (LOSS)	282,636.04
TOTAL EQUITY	$73,339,480.00
TOTAL EQUITY AND LIABILITIES	$142,950,519.05

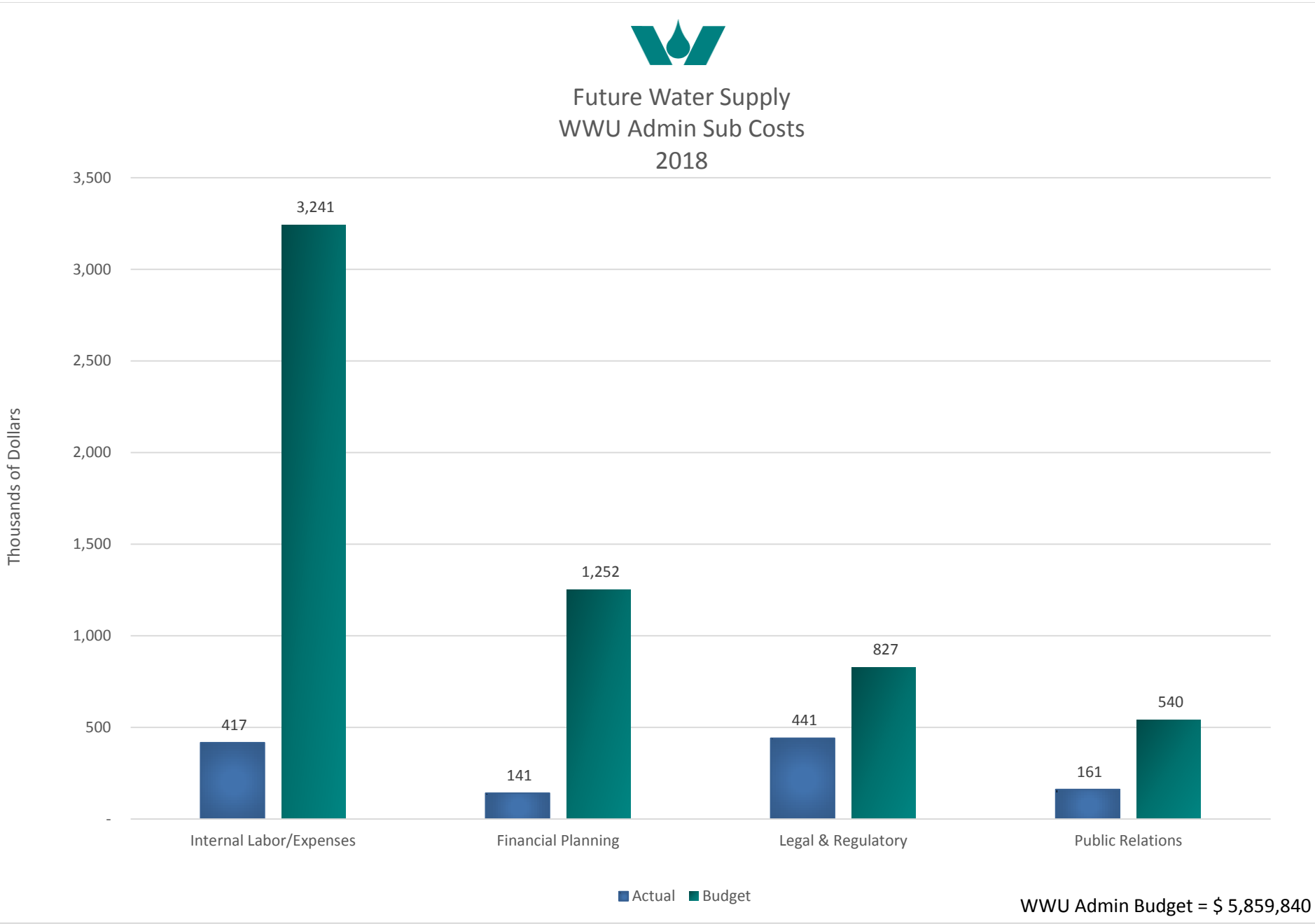
WAUKESHA WATER UTILITY
STATEMENT OF SOURCES AND USES OF CASH
PERIOD ENDING APRIL 30, 2018

Cash Balance - March 31, 2018			$24,949,073
SOURCES:			
Operations:			
Customers - water sales	$982,745		
Waste Water Utility - joint metering billing	56,007		
Rent of utility property - cellular leases	50,859		
Receipts on sewer bills	1,251,771		
Other - miscellaneous	7,658		
Total Cash From Operating Activities	$2,349,039		
Capital and Related Financing Activities:			
Grants			
Contributions	10,000		
Issuance of long-term debt	94,032		
Sale of short-term debt			
Interest income	36,890		
Total Cash From Capital/ Investing Activities	$140,922		
Total Cash Receipts		$2,489,961	
USES:			
Salaries, wages, payroll taxes and benefits	$250,486		
Subcontracted and outside services	87,585		
Disbursement to city for sewer transfer	940,021		
Pumping power	56,760		
Purchase of materials and supplies	98,677		
Tax equivalent - PILOT			
Acquisition of capital assets	1,263,547		
Debt service - principal	50,134		
Debt service - interest	418,217		
Total Cash Used		$3,165,426	
Net Change in Cash			($675,465)
Cash Balance - April 30, 2018			$24,273,608

WWU
TRANSMISSION AND DISTRIBUTION
BUDGET VARIANCE ANALYSIS

Project	Project #	Description/Location	Budget	Current Estimate	PJC Total	Aldermanic District		Construction Completion
WM offsets from WSB from Genesee Road to Fiddlers Creek Drive	M00501	Water Main offsets to accommodate changes in the storm sewer and roadway alignments. Project run by WDOT.		$ 198,512	$ 14,042	6	Jack Wells	Summer 2019
						7	Daniel J. Manion	
						13	Dean Lemke	
						14	Bill Boyle	
Northview Rd - Grandview to Tallgrass	M00518	Replace 1,500 feet of 8-inch main from 1967 with 12-inch PVC water main on Northview Rd. between Grandview and Tallgrass. Project done with City.		**$ 360,504**	$ 31,262	5	Peter Bartels	September 2018
						14	Bill Boyle	
South St - Grand to Barstow and Gaspar St - Main to Broadway	M00519	Replace 720 feet of 12-inch main from 1938 with 12-nch dulctile iron main on South St. from Grand to Barstow. Replace 280 feet of 6-inch main from 1909 with 8-inch ductile iron. Project done with City.		**$ 395,176**	$ 48,439	11	Erik Helgestad	July 2018
Fairview - Motor to St Paul and Motor - Fairview to Washington	M00520	Replace 1,540 feet of 6-inch from 1927 with 8-inch PVC on Fairview - Motor to St. Paul and Motor - Fairview to Washington. Project done with City.		**$ 304,562**	$ 10,150	2	Eric Payne	September 2018
Oakmont to Pebble Valley Zone	TBD	Extend 12" water main through easement connecting Pebble Valley and Oakmont.		$ 325,000	$ -	14	Bill Boyle	December 2018
Routine Projects			$ 2,160,072	$ 1,583,753	$ 103,893			
Misc Routine			$ 905,584	$ 905,584	$ 905,584			
Total Routine			$ 3,065,656	$ 2,489,337	$1,009,477			
Main St - Barstow to Lombardi	GLCD0007	Replace 2,800 feet of 8-inch from 1909 with 24-inch ductile iron on Main St. from Barstow to Lombardi. Project being done with City sanitary.		**$ 2,049,467**	$ 39,591	3	Cassie Rodriguez	October 2018
						11	Erik Helgestad	
N Moreland - Michigan to Summit	GLCD0009	Replace 2,000 feet of 8-inch from 1957 with 16-inch ductile iron main on N. Moreland Blvd. from Michigan to Summit.		$ 1,266,001	$ 17,284	4	Joe Pieper	October 2018
						15	Cory Payne	
Motor - Fairview to Mountain and Fairview - Motor to Dopp	GLCD0010	Replace 1,160 feet of 6-inch from 1917 with 20-inch ductile iron on Motor - Fairview to Mountain and Fairview - Motor to Dopp. Project done with City.		**$ 347,462**	$ 20,827	2	Eric Payne	September 2018
Distribution System Improvements			$ 4,001,241	$ 3,662,931	$ 77,702			
Total Transmission & Distribution			$ 7,066,897	$ 6,152,268	$1,087,179			

Bold Totals are Based on Bids


Future Water Supply
WWU Admin Sub Costs
2018
Thousands of Dollars
3,500
3,000
2,500
2,000
1,500
1,000
500
-
417
3,241
141
1,252
441
827
161
540
Internal Labor/Expenses
Financial Planning
Legal & Regulatory
Public Relations
Actual
Budget
WWU Admin Budget = $ 5,859,840

Monthly Interim Report

Waukesha Water Utility

Future Water Supply

May 14, 2018

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/CM") is the Program Manager and 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.

Current Period Audit Issues

During the current period, we reviewed Invoice No. 20 from Greeley and Hansen. There were no Audit Issues identified during the current period.

Current Period Request for Information

During the current period there were no new requests for information.

Exhibit 5 – Earned Value Analysis

Earned Value Analysis

The Earned Value (EV) technique is being used to monitor the Program scope, schedule and cost, and to assess overall Program performance. The components of EV are the work breakdown structure, the schedule and the estimated costs. By connecting these components, future Program performance can be predicted and proactive actions can be taken to stay on track.

The work breakdown structure is a grouping of Program elements that define and organize the scope of the Program. For this Program, the work breakdown structure is defined by the Task and subtask activities, deliverables, meetings and workshops. An estimated cost, or Planned Value (PV), duration and interdependencies are assigned to the Task and subtask activities, deliverables, meetings and workshop. A PV cumulative cost curve is used to identify the value at any point in time of the work that is planned to be done.

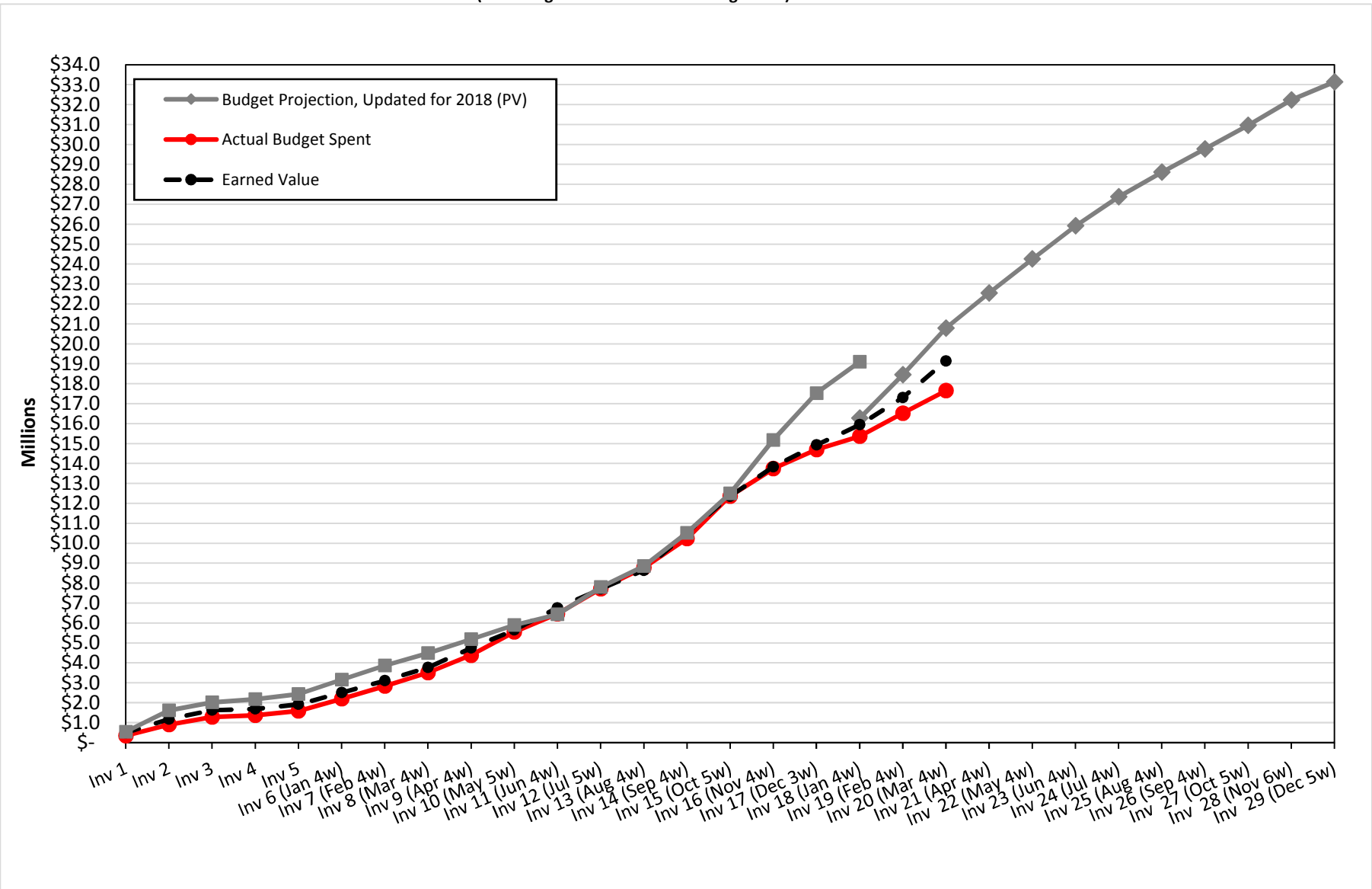
On a monthly basis, the value of the work completed as a percentage of the PV is determined by the Program Manager and defines the EV which is shown on the cumulative cost curve. The monthly Program invoices define the Actual Costs (AC) which are also shown on the cumulative cost curve. Using the cumulative cost curves developed for the overall Program and each Task, the Schedule Performance Index (SPI) and the Cost Performance Index (CPI) are calculated. SPI is calculated by dividing EV by PV. The CPI is calculated by dividing EV by AC.

At the December 2017 Commission Meeting, the WWU Commission approved the 2018 Milwaukee Route Study for $1,345,565 and the Phase 2 2018 budget of $13,999,908. The remaining budget for Task 3-300 and 5-200 water quality scope in the amount of $691,441 has been removed from the Program Approved Total amount of $34,242,960.

The 2018 budgets approved by the Commission in December 2017 have been added to the Earned Value charts in this Exhibit. The Earned Value charts have been updated to reflect the planned expenditure of the 2018 budgets for each Task through December 2018.

The work progress and challenges for each Task are noted on the following graphs.

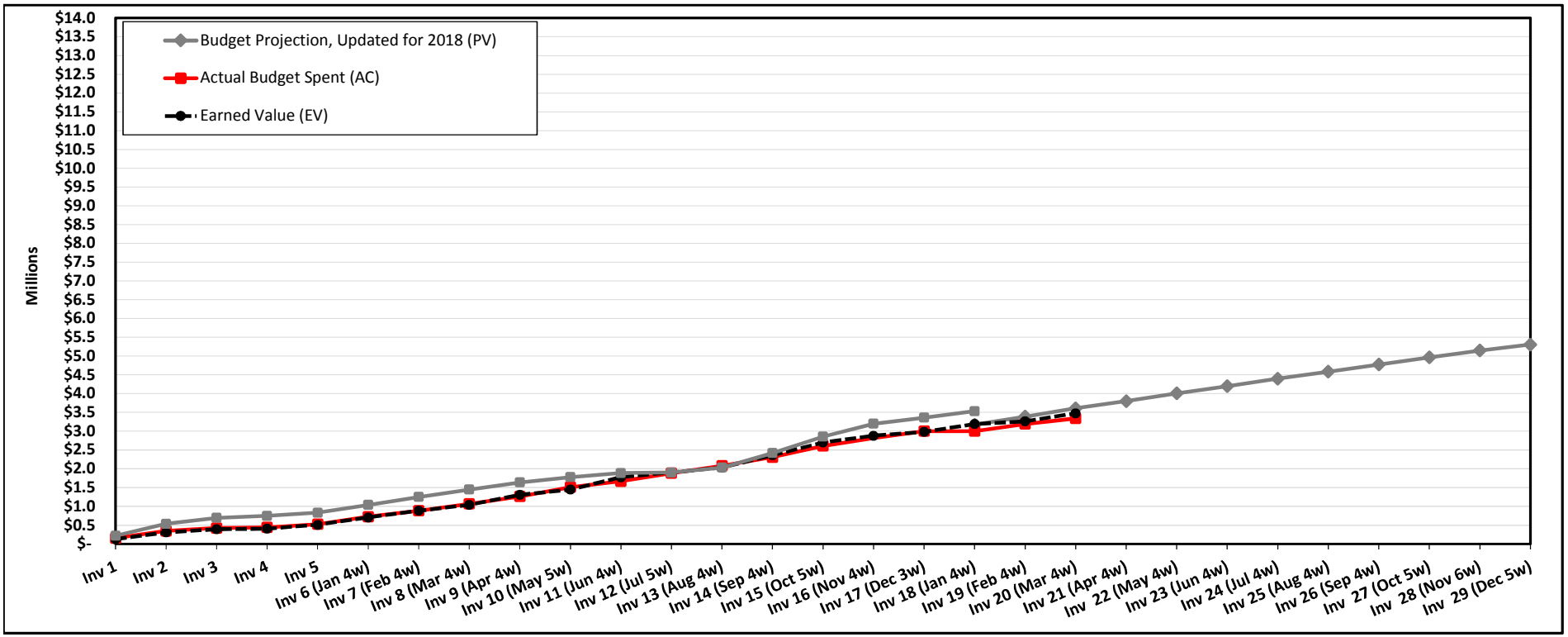
Great Lakes Water Supply Program PM/CM
Program
Earned Value Chart
Phase 1 and 2
(Excluding Allowances and Contingencies)



% Spent	**53.0%**	**Schedule Performance Index (SPI)**	**0.92**
Actual Budget Spent	**$17,650,214**	**Cost Performance Index (CPI)**	**1.08**

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

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



Earned Value Calculations		
Budget at Completion[(BAC)(1)] (BAC)	$	5,390,965
Estimate to Complete[(ETC1)] (ETC1=EAC1-AC)	$	1,839,363
Cost Variance[(CV)] (CV=EV-AC)	$	135,231
Schedule Variance [(SV)] (SV=EV-PV)	$	(134,637)
Cost Performance Index[(CPI)] (CPI=EV/AC)		1.04
Schedule Performance Index[(SPI)] (SPI=EV/PV)		0.96
Cost /Schedule Index[(CSI)] (CSI=CPI x SPI)		1.00
Estimate at Completion[(EAC1)](EAC1=BAC/CPI)	$	5,181,303.80
Variance at Completion[(VAC1)](VAC1=BAC-EAC1)	$	209,661.20

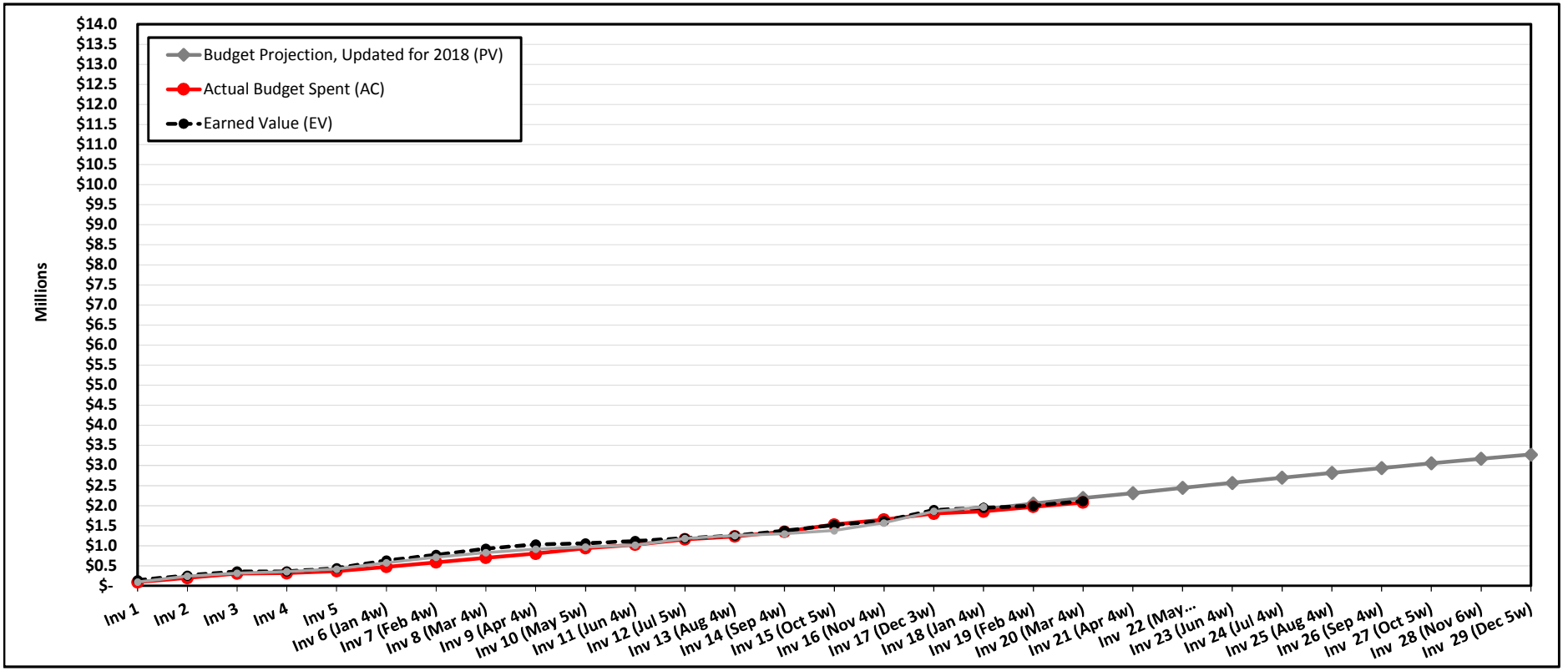
Task 1 Program Management Plan/Progress

- Performed QM review of the Route Study: Milwaukee.
- Performed preliminary review of 5-110 D1 Model Update Technical Memorandum and 5-120 D1 Distribution System Hydraulic Modeling Report.
- Prepared and submitted Invoice No. 19.
- Updated the Financial Management Dashboard and Report for Invoice No. 19.
- Held eight (8) Program Team Task 1 meetings.

Task 1 Program Management Challenges

- The Program Open House in Milwaukee originally planned to occur in February 2018 has been scheduled for April 4. Delay in the scheduling of the Open House meeting negatively impacts the Program schedule for completion of field investigations that are needed for submission of the PSC Construction Authorization and the Preliminary Design Report which are critical path items for the design, bidding and construction of the Program.

Great Lakes Water Supply Program
Phase 1 and 2
Task 2 - Programmatic Support Services Earned Value Chart
(Excluding Allowances and Contingencies)



Earned Value Calculations		
Budget at completion[(BAC)] (BAC)	$	3,325,716
Estimate to Complete[(ETC1)] (ETC1=EAC1-AC)	$	1,194,315
Cost Variance[(CV)] (CV=EV-AC)	$	34,049
Schedule Variance [(SV)] (SV=EV-PV)	$	(79,642)
Cost Performance Index[(CPI)] (CPI=EV/AC)		1.02
Schedule Performance Index[(SPI)] (SPI=EV/PV)		0.96
Cost /Schedule Index[(CSI)] (CSI=CPI x SPI)		0.98
Estimate at Completion[(EAC1)](EAC1=BAC/CPI)	$	3,272,096.02
Variance at Completion[(VAC1)](VAC1=BAC-EAC1)	$	53,619.98

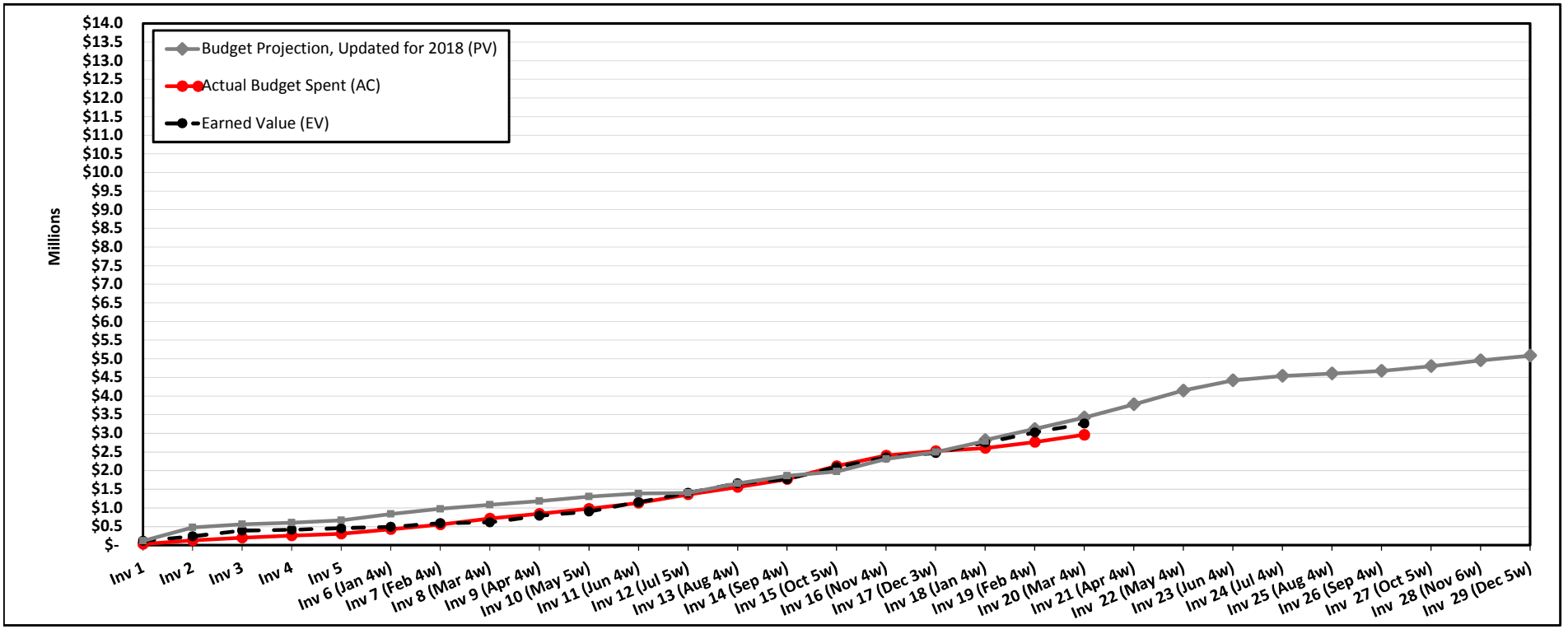
Task 2 Programmatic Support Services Plan/Progress

- Prepared for Open House in Milwaukee to support the Milwaukee Route Study, including a consituent mailer requested by Milwaukee for nearby residents who may be affected by project construction.
- Held nine (9) Program team Task 2 meetings.
- Developed the Draft Program 2018 Program Advertising Plan.
- Developing Contractor Outreach Plan.

Task 2 Programmatic Support Services Challenges

- The Program Open House in Milwaukee originally planned to occur in February 2018 has been scheduled for April 4.

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[(BAC)(1)] (BAC)	$	5,083,873
Estimate to Complete[(ETC1)] (ETC1=EAC1-AC)	$	1,650,067
Cost Variance[(CV)] (CV=EV-AC)	$	302,765
Schedule Variance [(SV)] (SV=EV-PV)	$	(158,043)
Cost Performance Index[(CPI)] (CPI=EV/AC)		1.10
Schedule Performance Index[(SPI)] (SPI=EV/PV)		0.95
Cost /Schedule Index[(CSI)] (CSI=CPI x SPI)		1.05
Estimate at Completion[(EAC1)](EAC1=BAC/CPI)	$	4,612,466.90
Variance at Completion[(VAC1)](VAC1=BAC-EAC1)	$	471,406.10

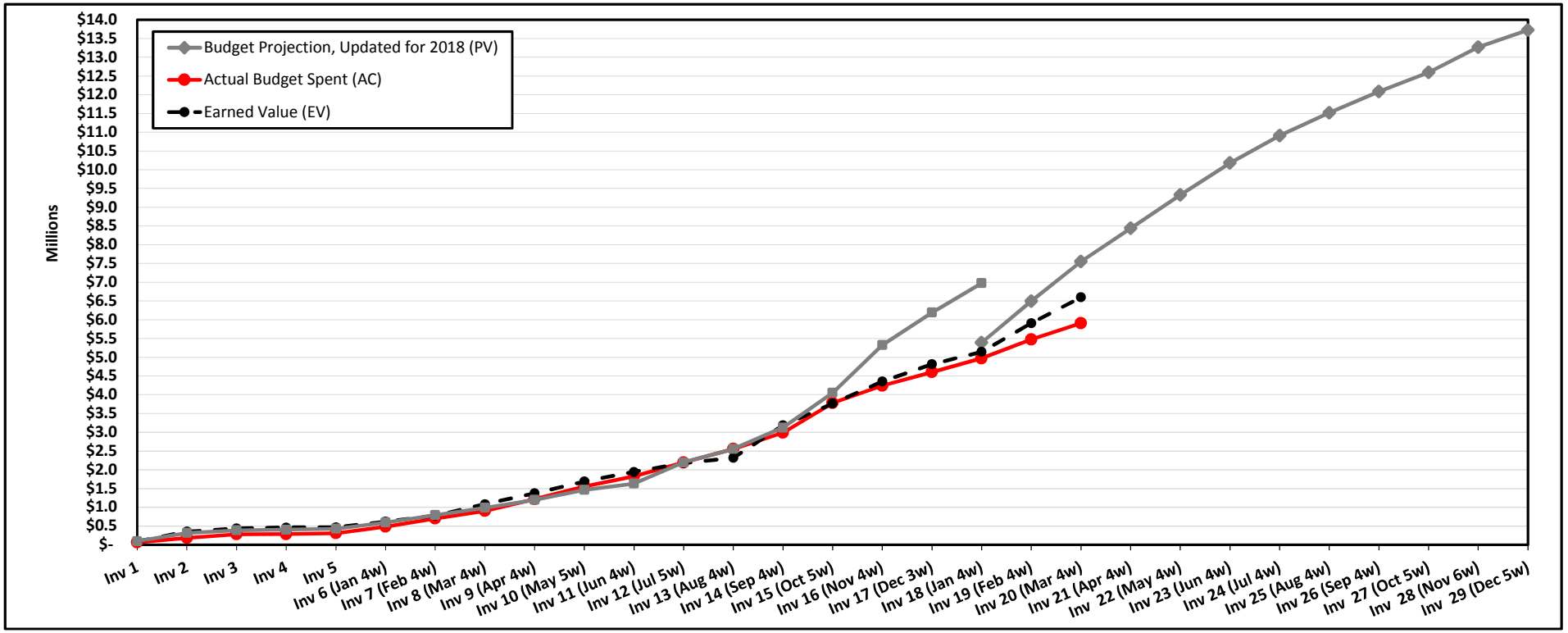
Task 3 Permitting Plan/Progress

- Held seven (7) Program Task 3 meetings.
- Submitted the Environmental Impact Report (EIS/WEPA Submittal) to WDNR
- Continued drafting the PSC CA application and the WDNR/USACE wetlands and waterways applications and supporting documents.
- Coordinated with WDNR to eliminate construction limitations near Muskego Lake that would have been require for two State listed threatened bird species.
- Continued discussions with WDNR and the Compact Council on Return Flow Management Plans and chloride compliance schedules.

Task 3 Permitting Challenges

- Ongoing WDNR negotiations on the Return Flow Management Plan have delayed the completion of the document. Meetings and analysis to complete this work will continue.
- Ongoing WDNR negotiations on chlorides compliance have delayed the completion of the Chloride Reduction Plan.
- The delay on selecting the preferred supply route has delayed progress on the the PSC CA application and the WDNR/USACE wetlands and waterways application sections related to the supply route.

Great Lakes Water Supply Program
Phase 1 and 2
Task 4 - Route Study and Pipeline Earned Value Chart
(Excluding Allowances and Contingencies)



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

Earned Value Calculations		
Budget at completion[(BAC)] (BAC)	$	13,744,049
Estimate to Complete[(ETC1)] (ETC1=EAC1-AC)	$	6,401,395
Cost Variance[(CV)] (CV=EV-AC)	$	688,164
Schedule Variance [(SV)] (SV=EV-PV)	$	(953,602)
Cost Performance Index[(CPI)] (CPI=EV/AC)		1.12
Schedule Performance Index[(SPI)] (SPI=EV/PV)		0.87
Cost /Schedule Index[(CSI)] (CSI=CPI x SPI)		0.98
Estimate at Completion[(EAC1)](EAC1=BAC/CPI)	$	12,310,374.92
Variance at Completion[(VAC1)](VAC1=BAC-EAC1)	$	1,433,674.37

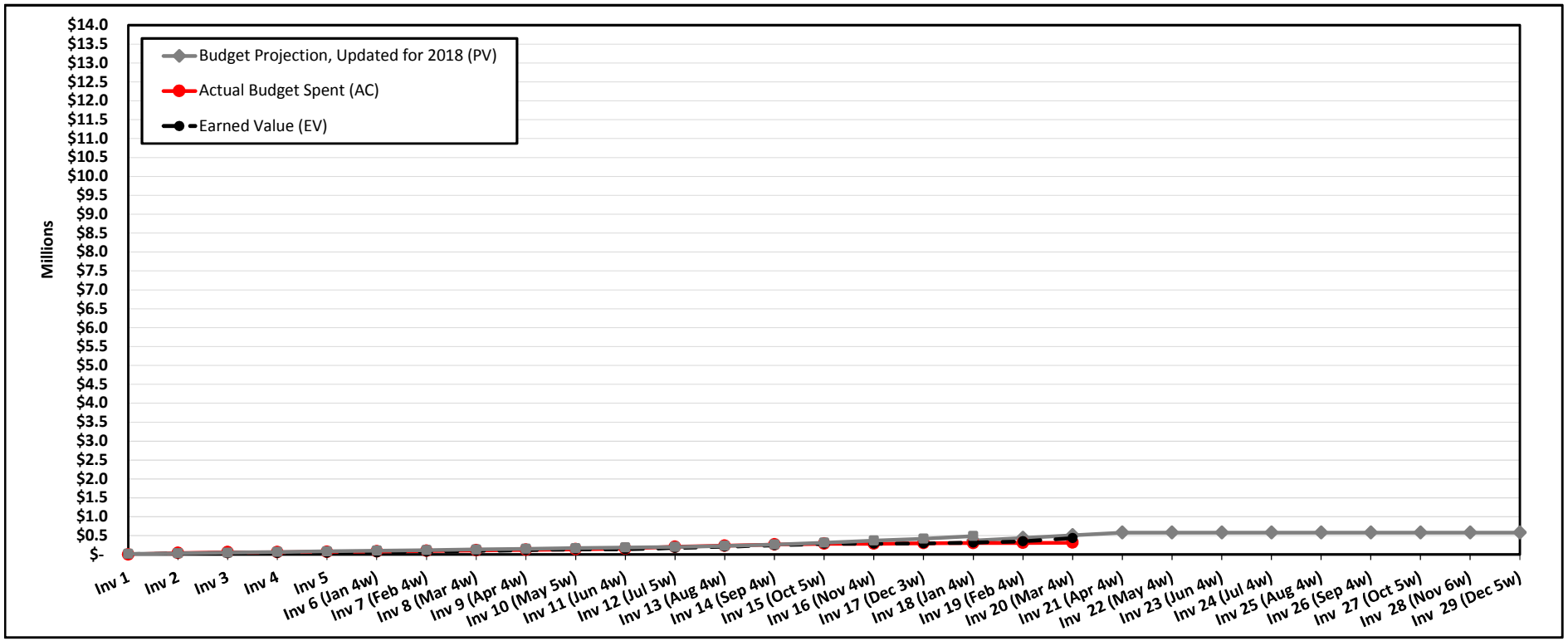
Task 4 Route Study and Pipeline Plan/Progress

- Held three (3) pipe manufacturer tours at US Pipe's Ductile Iron Pipe Manufacturing Facility and American Cast Iron Pipe Company's Ductile Iron and Steel Pipe Manufacturing Facilities.
- Further developed the Route Study: Milwaukee (4-100 D2) in coordination with Program Team members including desktop analyses, steady state hydraulics, preliminary horizontal alignments, and conceptual opinions or probable construction cost.
- Further refined the Preliminary Design Report (PDR) (6-240 D1).
- Proceeded with field investigations and further developed reports associated with field investigations along the Return Flow Pipeline.

Task 4 Route Study and Pipeline Challenges

- Changes to the WSPS location and connection to the MWW distribution system could negatively impact the schedule for submission of the PSC Construction Authorization and the Preliminary Design Report (PDR) (6-240 D1), which are critical path items for the design, bidding and construction of the Program.

Great Lakes Water Supply Program
Phase 1 and 2
Task 5 - Distribution System Earned Value Chart
(Excluding Allowances and Contingencies)



Earned Value Calculations		
Budget at completion[(BAC)(1)] (BAC)	$	579,901
Estimate to Complete[(ETC1)] (ETC1=EAC1-AC)	$	104,293
Cost Variance[(CV)] (CV=EV-AC)	$	122,047
Schedule Variance [(SV)] (SV=EV-PV)	$	(74,881)
Cost Performance Index[(CPI)] (CPI=EV/AC)		1.39
Schedule Performance Index[(SPI)] (SPI=EV/PV)		0.85
Cost /Schedule Index[(CSI)] (CSI=CPI x SPI)		1.19
Estimate at Completion[(EAC1)](EAC1=BAC/CPI)	$	417,172.12
Variance at Completion[(VAC1)](VAC1=BAC-EAC1)	$	162,728.95

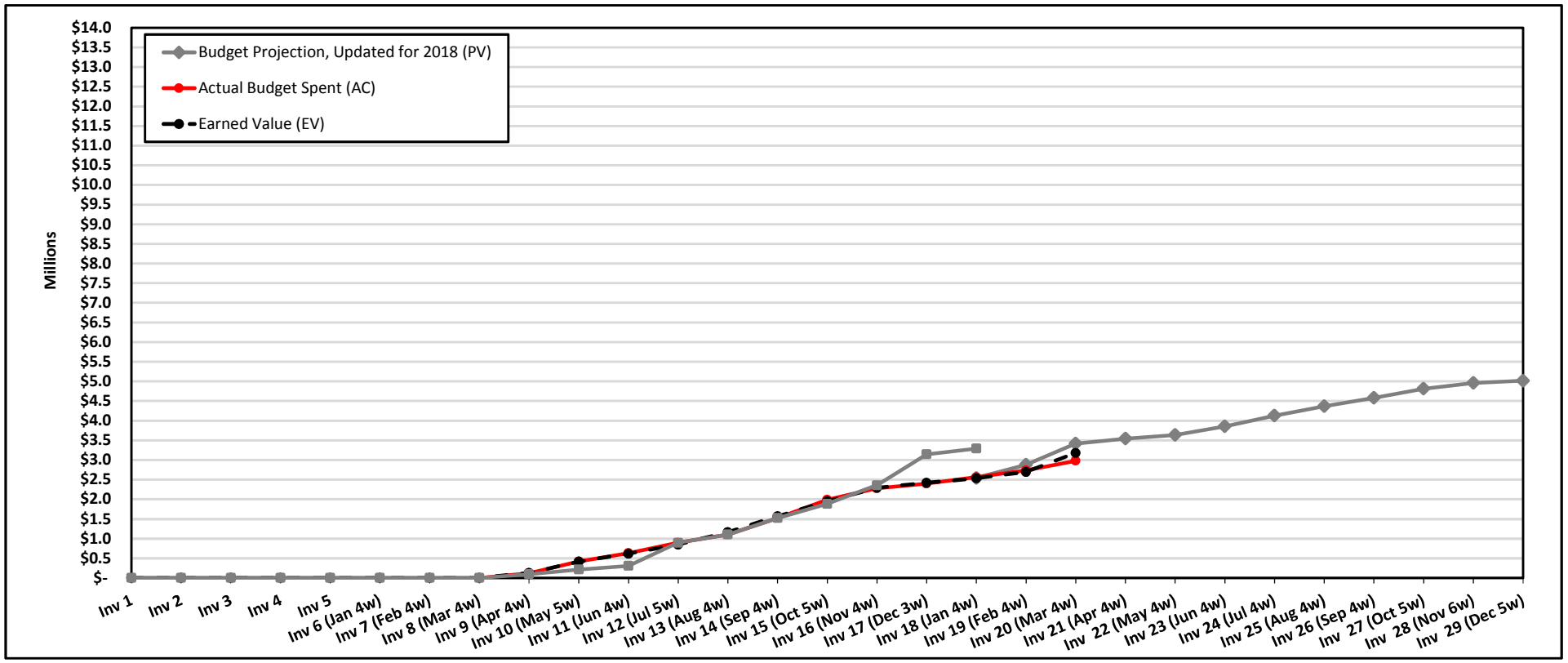
Task 5 Distribution System Plan/Progress

- Submitted the 5-110 D1 Model Update Technical Memorandum for PM review.
- Submitted the 5-120 D1 Distribution System Hydraulic Modeling Report for PM Review.

Task 5 Distribution System Challenges

- Scope and budget associated with Tasks 5-200 and 5-300 water quality have been removed.

Great Lakes Water Supply Program
Phase 1 and 2
Task 6 - Pump Stations, Storage, and Chemical Treatment Earned Value Chart
(Excluding Allowances and Contingencies)



Earned Value Calculations		
Budget at completion[(BAC)(1)](BAC)	$	5,018,415
Estimate to Complete[(ETC1)] (ETC1=EAC1-AC)	$	1,719,311
Cost Variance[(CV)] (CV=EV-AC)	$	201,916
Schedule Variance [(SV)] (SV=EV-PV)	$	(239,553)
Cost Performance Index[(CPI)] (CPI=EV/AC)		1.07
Schedule Performance Index[(SPI)] (SPI=EV/PV)		0.93
Cost /Schedule Index[(CSI)] (CSI=CPI x SPI)		0.99
Estimate at Completion[(EAC1)](EAC1=BAC/CPI)	$	4,700,032.49
Variance at Completion[(VAC1)](VAC1=BAC-EAC1)	$	318,382.61

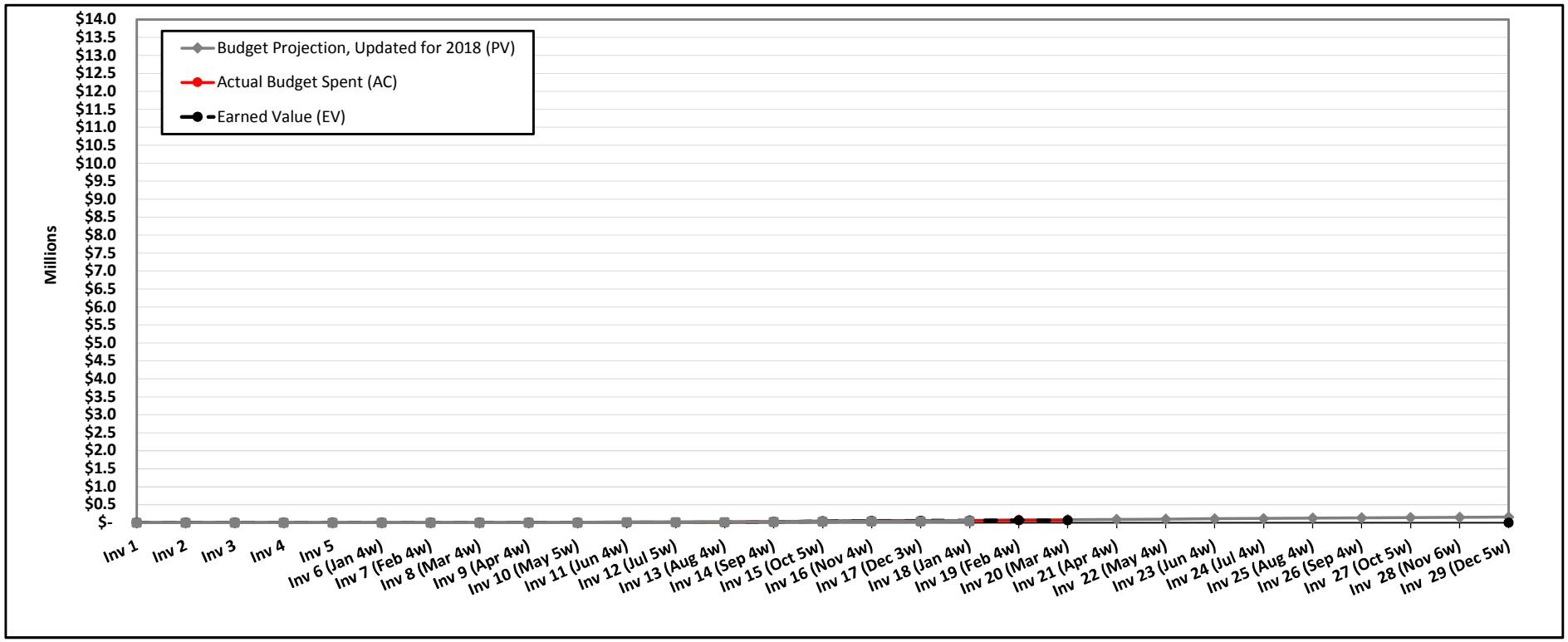
Task 6 Pump Stations, Storage and Chemical Treatment Plan/Progress

- Performed soil borings at the Booster Pumping Station (BPS) site.
- Finalized the Phase 1 Environmental Site Assessment (ESA)for BPS and return Flow Pumping Station.
- Coordinated with Milwaukee Water Works (MWW) to confirm the capacity of the Water Supply Pumping Station (WSPS).
- Met with Clean Water Plant (CWP) staff to present 30% design of the RFPS.
- Continued to address comments and revisions to

Task 6 Pump Stations, Storage and Chemical Treatment Challenges

- The site selection process must be complete for the WSPS in order to perform site investigations.
- Survey and geotechnical work has been delayed due to inclement weather conditions and proceeds as conditions allow.
- Proceeding with conservative design estimates for water quality from the supplier for sizing chemical feed facilities due to limited information available from the supplier.

Great Lakes Water Supply Program
Phase 1 and 2
Task 7 - Construction and Construction Management Earned Value Chart
(Excluding Allowances and Contingencies)



Earned Value Calculations		
Budget at completion[(BAC)(1)] (BAC)	$	154,378
Estimate to Complete[(ETC1)] (ETC1=EAC1-AC)	$	86,840
Cost Variance[(CV)] (CV=EV-AC)	$	872
Schedule Variance (SV) (SV=EV-PV)	$	(14,647)
Cost Performance Index[(CPI)] (CPI=EV/AC)		1.01
Schedule Performance Index[(SPI)] (SPI=EV/PV)		0.82
Cost /Schedule Index[(CSI)] (CSI=CPI x SPI)		0.83
Estimate at Completion[(EAC1)](EAC1=BAC/CPI)	$	152,351.02
Variance at Completion[(VAC1)](VAC1=BAC-EAC1)	$	2,026.98

Task 7 Construction and Construction Management Plan/Progress

- Initiated Contracting Strategy Plan for QM review.

Task 7 Construction and Construction Management Challenges

- Impending Federal funding and financing opportunities may impact the contracting strategy for the Program.