

**ALBANY WATER BOARD**  
MINUTES OF REGULAR MEETING

A regular meeting of the Albany Water Board was officially convened at 9:25 AM, in the Conference Room at the Albany Water Board, 10 North Enterprise Drive, Albany, New York Friday, July 27, 2018.

**PRESENT:** Charles Houghton, Chairman; Dan Ranellone, Vice Chairman; Rachel Johnson, Secretary; Anthony Owens, Treasurer; Barbara Smith, Member

**STAFF PRESENT:** Thomas Dufresne, CFO; Bill Simcoe, Deputy Commissioner; Emily Lyons, Confidential Assistant

**BOARD ADVISORS PRESENT:** William Kahn, UHY Advisors; Madalyn DeThomasis, Assistant Corporation Counsel; Kevin Hogan, Arcadis Engineering

**Approval of June 22 Regular Meeting**

Chairman Charles Houghton introduced the minutes of the Regular Meeting held on June 22, 2018. With no objection, the reading of minutes was dispensed and Mr. Houghton called for a motion to approve the minutes of said meeting. A motion was made and seconded and passed unanimously.

**Public Comment Period**

No public comments.

**Committee and Other Reports**

**Finance Committee Report:** Anthony Owens, Finance Committee Chairman

The finance committee discussed the budget. Overall, revenues are down due to water conservation and system improvements, while personnel expenses are up due to positions being filled and a cost of living increase. The committee also discussed current status on grants and the opportunities to continue applying for more grants. The need to address the payment schedule for the Long Term Control Plan was also discussed. After continued evaluation and discussions, the Board will eventually need to enter a municipal agreement with the other POOL communities to finalize the payment schedule. William Kahn, the rate consultant to the Water Board, discussed the potential of a 2-3% rate increase to maintain the debt service coverage ratio.

**Financial Report:** Thomas Dufresne, Chief Fiscal Officer.

Cash flow has remained positive for the month and the year; however it is below what it was at this time last year. Upon deeper analysis into our accounts, a decline in water usage was found in several areas. These included small residential customers, exempt Land Bank owned properties, St. Rose, and some apartment buildings. We are using water audit data to investigate further, but it is probably due to our improvements to the system to prevent over-charging.

Expenses are controlled over all. There has been an uptick related to personnel due to 9 new positions filled since last year and cost of living increases. We also experienced an increase in Worker's Compensation. Currently, we are exploring implementing a light duty return to work program. We are also going through the budget for next year and looking into other cost savings. We should be cash flow positive by the end of this year.

**Commissioner's Report:** Bill Simcoe, Deputy Commissioner

**CFA Applications & ISC Applications – Grant applications and flood mitigation:** We have a focus on flood mitigation and green infrastructure projects for grant applications. The department is also applying for a DEC grant for the Hackett project. The City is competing for a 10 million revitalization grant that will help fund the Sheridan Ave project. The department also closed financing on the upper Washington sewage main.

**Changes to EFC SRF Program:** Changes to the program have created an opportunity for us to receive greater grant amounts for the LTCP.

**2017 Large Diameter Trunk Sewer Rehabilitation Project – Washington Park sewer:** There has been a change order with Arold construction to repair a 5 ft. brick sewer in Washington Park. There is a hole in the side of the sewer that needs repair to prevent sewage leaving the pipe.

**Floatables Project – construction status report:** Excavation is ongoing at the sites of Maiden Lane & Quackenbush and Stueben Street after some Archeology delays. The site at Orange Street is clearing archeology soon.

**Beaver Creek Clean River Project Community Outreach - status report:** The Board viewed the Beaver Creek drone and walk through video. The video will be shown to the Community Advisory Committee in coming weeks to get their input on the design of the Reflection and Learning Garden. The discussions with the sewer district are ongoing concerning the alternative design options for the Treatment Facility.

**Feura Bush WTP Employee & Public Space Improvements – Project Update:** The improvements are ongoing and the employees are ready to move to the trailer. The project is over budget, so we intend to increase EFC financing.

**Town of Colonie MOU – Interconnections project:** An agreement has been made for Colonie to bid the project and administer it, but we will be responsible for half of the costs. We are currently waiting on EFC financing to close.

**Mereline Avenue LTCP Project – Design change for ISC eligibility:** There has been an increase in costs, so the project needs to be supplemented by \$28,300. We have until Oct. 1 to complete the design. Once completed, this will be the first project with permeable pavement.

**Hydrant Inspection & Flushing Program – community outreach status report:** With the flushing program causing water discoloration, there continues to be complaints from City residents. To increase awareness of the program, the department will continue to use doorhangers, but will also send out a postcard mailing city-wide and do more digital promotions (website, social media.)

## Old Business

Guilderland Water Purchase Agreement: Bill Simcoe reported that the department is close to an agreement. Engineering reviewed the technical side and we are hoping for a 10 year agreement. It is anticipated that the contract will be ready by next board meeting.

Coeymans Property Assessment – Madalyn DeThomasis reported that the survey is complete and the draft is due today. It is anticipated a final version will be ready by next Board meeting.

Alcove – Nature Conservancy: Charles Houghton reported that this will be ready for the Board Agenda next month, and that final legal agreements are almost ready.

## Resolutions

Mr. Houghton called for a motion to approve each of the following resolutions. A motion was made for each and seconded; each resolution passed unanimously.

- **Resolution 18-60:** Authorizing Change Order #2 in the amount of \$57,188.84 for work associated with the City of Albany Floatables Control Contract with William J. Keller & Sons. Change Order encumbers the allowance value in the contract. No increase in Contract value.
- **Resolution 18-61:** Authorizing Change Order #3 in the amount of \$246,500 to Arold Construction 2017 Large Diameter Trunk Sewer Rehabilitation Contract. Contract value will increase from \$733,000 to \$978,000.
- **Resolution 18-62:** Authorizing Transfer of \$700,000 from On-Going Funds Account to Capital Account 8350.7512 (Supply Conduit) For Tivoli Preserve Stream Daylighting Project.
- **Resolution 18-63:** Authorizing Contract Advertisement for Bids for Tivoli Preserve Stream Daylighting Project.
- **Resolution 18-64:** Authorizing Chairman to sign a Memorandum of Understanding between the Town of Colonie and the Albany Water Board with respect to construction of two water supply interconnections.
- **Resolution 18-65:** Authorizing an additional fee of \$28,300 for Barton & Loguidice for the Mereline Avenue SSS-09 project of the Long Term Control Plan.

## Executive Session

The Board found no purpose to enter executive session for this meeting.

Being no further business, Mr. Houghton called for a motion to adjourn the meeting. A motion was made, seconded and passed unanimously. The meeting was adjourned at 11:00 AM.

Next regular meeting of the Water Board is scheduled for Friday, August 24, 2018, 9:00am

Recorded by: Emily Lyons, Confidential Assistant

Approved by: \_\_\_\_\_  
Rachel Johnson, Secretary

**ALBANY WATER BOARD  
ALBANY MUNICIPAL WATER FINANCE AUTHORITY  
COMBINED FINANCIAL STATEMENTS**  
*For the period ending June 30, 2018*

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**ALBANY WATER BOARD  
ALBANY MUNICIPAL WATER FINANCE AUTHORITY  
STATEMENTS OF CASH FLOWS  
June 30, 2018**

	One Month Period Ended		Year-To-Date Periods Ended		Percent Variance	Variance	Percent Variance
	2018	2017	June 2018	2017			
<b>Revenues</b>							
Water/sewer revenue	\$ 3,004,530	\$ 2,592,681	\$ 411,849	17,019,726	15.9%	\$ (299,330)	-1.7%
Investment income	172,699	28,793	143,906	212,286	499.8%	12,288	6.1%
<b>Total revenues</b>	<b>3,177,228</b>	<b>2,621,474</b>	<b>555,754</b>	<b>17,232,012</b>	<b>21.2%</b>	<b>(287,042)</b>	<b>-1.6%</b>
<b>Operating expenses</b>							
Operation/maintenance costs	1,174,168	1,247,316	(73,148)	10,515,558	-5.9%	332,623	3.3%
Board/Authority expenses	8,826	11,685	(2,859)	70,570	-24.5%	13,857	24.4%
<b>Total expenses</b>	<b>1,182,994</b>	<b>1,259,001</b>	<b>(76,007)</b>	<b>10,586,127</b>	<b>-6.0%</b>	<b>346,480</b>	<b>3.4%</b>
<b>Net operating cash flows before debt service and capital project costs</b>	<b>1,994,235</b>	<b>1,362,473</b>	<b>631,762</b>	<b>6,645,885</b>	<b>46.4%</b>	<b>(633,522)</b>	<b>-8.7%</b>
Debt service costs	(411,333)	(497,850)	86,517	(2,467,998)	-17.4%	519,102	-17.4%
Capital project costs	(1,044,879)	(645,242)	(399,637)	(1,996,451)	0.0%	(372,141)	0.0%
Grant Income	270,871	120,328	150,542	648,520	0.0%	205,242	0.0%
<b>Net cash flow (deficiency)</b>	<b>\$ 808,893</b>	<b>\$ 339,709</b>	<b>\$ 469,184</b>	<b>\$ 2,829,955</b>	<b>138.1%</b>	<b>\$ (281,319)</b>	<b>-9.0%</b>

**ALBANY WATER BOARD**  
**ALBANY MUNICIPAL WATER FINANCE AUTHORITY**  
**SCHEDULE OF REVENUES**  
*June 30, 2018*

	2018 Budget	2018 Actual	Variance Favorable (Unfavorable)	Variance %	2017 Budget	2017 Actual	Variance Favorable (Unfavorable)	Variance %
<i>Water and sewer revenue</i>								
June	2,921,121	\$ 3,004,530	\$ 83,409	3%	\$ 2,864,881	\$ 2,592,681	\$ (272,200)	-10%
Year-to-Date	17,399,537	\$ 17,019,726	\$ (379,811)	-2%	\$ 17,049,015	\$ 17,319,056	\$ 270,041	2%
<i>Investment income</i>								
June	\$ 22,917	\$ 172,699	\$ 149,782	654%	\$ 33,333	\$ 28,793	\$ (4,540)	-14%
Year-to-Date	\$ 137,500	\$ 212,286	\$ 74,786	54%	\$ 166,665	\$ 199,998	\$ 139,838	84%

	Monthly		YTD
	Monthly	YTD	
<i>Additional Cash Receipts</i>			
<u>Miscellaneous</u>			
Other	\$ 5,755	\$ 22,944	
Fishing Permits	\$ 150	\$ 585	
Sales of Scrap	\$ 582	\$ 6,433	
Insurance Recoveries	\$ -	\$ -	
Colonie Street	\$ 1,250	\$ 1,250	
Deltmar Mail Easement	\$ -	\$ -	
Delaware Plaza Easement	\$ -	\$ -	
<u>Rent</u>			
Huck Finn	\$ 1,250	\$ 7,500	
DASNY Rent	\$ 1,250	\$ 7,500	
Lamar	\$ -	\$ -	
Time Warner Rent	\$ -	\$ -	
Sprint	\$ 12,442	\$ 12,442	
<b>Totals</b>	<b>\$ 22,676</b>	<b>\$ 58,654</b>	

Note: The revenue budgets reflect forecasted revenue collections of \$37,725,000 and \$39,290,000 for 2018 and 2017, respectively.

**ALBANY WATER BOARD**  
**ALBANY MUNICIPAL WATER FINANCE AUTHORITY**  
**SCHEDULE OF OPERATING**  
**June 30, 2018**

	2018 ANNUAL BUDGET	YEAR-TO-DATE June 2018			2017 YTD ACTUAL
		ADJUSTED BUDGET	ACTUAL	(OVER)/ UNDER	
<b>Administration</b>					
Personnel services	1,263,510	631,755	614,302	17,453	507,056
Equipment/Furniture	2,000	1,000	989	11	-
Contractual and other expenses	251,395	125,698	111,388	14,309	82,896
Benefits	465,999	233,000	154,192	78,807	160,087
	1,982,904	991,452	880,872	110,580	749,838
<b>Supply, Power and Pumping</b>					
Personnel services	912,712	456,356	330,930	125,426	316,876
Equipment	211,000	105,500	10,315	95,185	4,949
Contractual and other expenses	151,735	75,868	53,626	22,241	39,392
Benefits	197,367	98,684	115,709	(17,026)	107,925
	1,472,814	736,407	510,581	225,826	469,141
<b>Purification</b>					
Personnel services	1,486,186	743,098	632,080	111,018	495,651
Equipment	255,000	127,500	25,749	101,751	49,998
Contractual and other expenses	1,365,728	682,864	339,415	343,449	298,455
Benefits	459,287	229,643	189,399	40,244	152,964
	3,566,211	1,783,105	1,186,644	596,462	997,069
<b>Transmission/Distribution</b>					
Personnel services	2,988,926	1,494,463	1,146,377	348,086	1,190,160
Equipment	570,000	285,000	7,277	277,723	178,274
Contractual and other expenses	2,352,159	1,176,080	494,517	681,562	403,519
Benefits	967,571	483,786	377,831	105,955	417,467
	6,878,656	3,439,328	2,026,002	1,413,326	2,189,420
<b>Sewer Services</b>					
Personnel services	888,478	444,239	418,239	26,000	380,382
Equipment	363,000	181,500	36,546	142,954	485
Contractual and other expenses	1,854,082	927,031	436,131	490,900	642,311
Benefits	202,781	101,391	161,339	(59,948)	148,310
	3,308,321	1,654,161	1,054,256	599,905	1,171,488
<b>Pumping Stations</b>					
Personnel services	166,365	83,183	78,065	5,118	72,973
Equipment	10,000	5,000	-	5,000	4,810
Contractual and other expenses	371,807	185,904	127,176	58,727	72,423
Benefits	74,015	37,007	36,463	544	30,051
	622,187	311,093	241,704	69,389	180,257
<b>Taxes Paid to Municipalities</b>	2,262,758	565,690	570,809	(5,119)	566,134
<b>County Sewer Contract</b>	6,500,000	3,250,000	3,114,673	135,327	3,054,422
<b>Contingencies, Insurance and Other</b>	4,516,633	1,683,316	930,018	753,299	805,165
<b>Total Operating Expenses</b>	31,110,484	14,414,553	10,515,558	3,898,995	10,182,935
<b>Capital Expenditures</b>					
	3,000,000	1,500,000	1,996,451	(496,451)	1,624,311
<b>GRAND TOTAL</b>	34,110,484	15,914,553	12,512,009	3,402,543	11,807,245

**EXPENSE SUMMARY:**

	2018	2017	Change
Personnel Services	3,219,993	2,963,098	256,895
Equipment	82,877	238,516	(155,639)
Contractual and other expenses	1,582,254	1,538,796	23,458
Benefits	1,034,934	1,016,604	18,130
Other	4,615,500	4,425,721	189,779
	10,515,558	10,182,935	332,623

Percent Increase/Decrease over 2017 3.3%

Percent under Budget -27.0%

Personnel Services under Budget -16.4%

-23.1%

03 - Operating Expenses

**ALBANY WATER BOARD**  
**ALBANY MUNICIPAL WATER FINANCE AUTHORITY**  
**June 30, 2018**

**Actual Expenditures to Date**

1995	\$	3,459,286
1996		3,148,713
1997		2,977,569
1998		2,059,812
1999		2,696,065
2000		1,771,829
2001		2,437,338
2002		3,384,049
2003		3,845,848
2004		5,673,522
2005		2,389,244
2006		1,575,740
2007		459,599
2008		1,230,331
2009		1,807,010
2010		1,108,164
2011		734,443
2012		2,266,553
2013		2,059,475
2014		1,832,084
2015		2,076,594
2016		8,403,230
2017		5,737,150
2018		1,996,451
	\$	<u>65,130,099</u>

**Comparative Expenditures**

	[----- 2016 -----]		2017
January	\$	-	January \$ -
February			February 5,949
March		423,060	March 94,117
April		72,924	April 336,818
May		94,213	May 519,075
June		329,510	June 668,351
July		115,872	July 878,960
August		253,453	August 903,516
September		1,383,307	September 96,704
October		427,592	October 407,796
November		353,823	November 717,995
December		4,949,476	December 1,107,869
	\$	<u>8,403,230</u>	\$ <u>5,737,150</u>

2018	Gross Capital	Grants & Funding	Net Capital	YTD
January	\$	-	\$	-
February		-	-	-
March		-	-	-
April		35,417	35,417	35,417
May		916,156	916,156	951,572
June		1,044,879	1,044,879	1,996,451
July		-	-	1,996,451
August		-	-	1,996,451
September		-	-	1,996,451
October		-	-	1,996,451
November		-	-	1,996,451
December		-	-	1,996,451
	\$	<u>1,996,451</u>	\$ <u>1,996,451</u>	<u>1,996,451</u>

ALBANY WATER BOARD  
 ALBANY MUNICIPAL WATER FINANCE AUTHORITY  
 SCHEDULE OF OVERTIME  
 June 30, 2018

OVERTIME	Budget 6/30/2018 YTD	Actual 6/30/2018 YTD	Budget Difference (over)/under	Actual 6/30/2017 YTD	Actual Difference (over)/under
Supply, Power and Pumping	\$ 37,500	\$ 31,167	\$ 6,333	\$ 24,542	\$ (6,525)
Purification	\$ 45,000	\$ 43,465	\$ 1,535	\$ 31,955	\$ (11,510)
Transmission/Distribution	\$ 140,000	\$ 154,826	\$ (14,826)	\$ 184,534	\$ 29,708
Sewer Services	\$ 25,000	\$ 32,624	\$ (7,624)	\$ 34,320	\$ 1,696
Pumping Stations	\$ 2,500	\$ 3,607	\$ (1,107)	\$ 2,625	\$ (962)
<b>TOTAL</b>	<b>\$ 250,000</b>	<b>\$ 265,689</b>	<b>\$ (15,689)</b>	<b>\$ 277,976</b>	<b>\$ 12,287</b>
Percentage			-6.28%		4.4%
DUE FROM THE CITY OF ALBANY	6/30/2018				
	\$ 4,346,711				
Rt 7 ACCOUNTS RECEIVABLE	\$ 536,964				

**ALBANY WATER BOARD**  
**ALBANY MUNICIPAL WATER FINANCE AUTHORITY**  
**EXPENSE DETAIL BY DEPARTMENT**  
**June 30, 2018**

Trial Balance Listing Account Description	May		June		2017	
	Balance Forward	MTD Debits	MTD Credits	Ending Balance	MTD Balance	MTD Balance
Department 8120 - Sewer Maintenance						
Salaries	313,497.06	72,118.28	-	385,615.34	-	-
Supervisory	-	-	-	-	74,021.22	-
Professional/Technical	-	-	-	-	-	-
Public Safety/Operations	-	-	-	-	272,040.51	-
Trades	-	-	-	-	-	-
Clerical	-	-	-	-	-	-
Line-up Pay/Clothing Allow	3,600.00	-	-	3,600.00	5,800.00	-
Overtime	29,403.19	3,220.83	-	32,624.02	34,320.49	-
Vehicles	-	-	-	-	-	-
Other Equipment	38,546.00	-	-	38,546.00	484.59	-
Supplies & Materials	34,455.17	20,411.56	-	54,866.73	22,311.74	-
Uniforms	-	-	-	-	-	-
Gasoline	13,789.31	-	-	13,789.31	12,760.27	-
Motor Vehicle Expense	27,957.97	8,519.50	-	36,477.47	14,893.48	-
Expense of Litigation	-	-	-	-	-	-
Contracted Services	304,366.95	26,630.95	-	330,997.90	592,345.90	-
Training/Conferences	-	-	-	-	-	-
Social Security	25,099.10	5,370.97	-	30,470.07	27,895.80	-
Hospital & Medical Ins.	108,443.02	22,824.62	3,998.75	127,268.89	114,614.44	-
Department 8120 - Sewer Maintenance Totals	<b>899,157.77</b>	<b>159,096.71</b>	<b>3,998.75</b>	<b>1,054,255.73</b>	<b>1,171,488.44</b>	

**ALBANY WATER BOARD**  
**ALBANY MUNICIPAL WATER FINANCE AUTHORITY**  
**EXPENSE DETAIL BY DEPARTMENT**  
**June 30, 2018**

Trial Balance Listing Account Description	May		June		2017	
	Balance Forward	MTD Debits	MTD Credits	Ending Balance	MTD Balance	MTD Balance
Department 8E30 - Pumping Stations						
Salaries	59,953.18	14,336.01	-	74,289.19	-	-
Supervisory	-	-	-	-	21,726.64	21,726.64
Public Safety/Operations	-	-	-	-	48,622.04	48,622.04
Temporary Help	168.75	-	-	168.75	-	-
Line-up Pay/Clothing Allow	800.00	-	-	800.00	800.00	800.00
Overtime	3,450.15	156.54	-	3,606.69	2,624.50	2,624.50
Other Equipment	-	-	-	-	4,810.00	4,810.00
Supplies & Materials	-	-	-	-	423.00	423.00
Fuel Oil	-	-	-	-	-	-
Uniforms	-	-	-	-	-	-
Utilities	65,707.23	15,632.30	-	81,339.53	50,339.47	50,339.47
Expense of Litigation	-	-	-	-	-	-
Contracted Services	9,098.81	36,737.99	-	45,836.80	21,660.13	21,660.13
Training/Conferences	-	-	-	-	-	-
Social Security	4,509.21	1,069.79	-	5,579.00	5,147.29	5,147.29
Hospital & Medical Ins.	25,230.53	5,740.45	826.60	30,144.38	24,103.72	24,103.72
Department 8E30 - Pumping Stations Tufts	168,917.86	73,613.08	826.60	241,704.34	180,256.79	180,256.79

**ALBANY WATER BOARD**  
**ALBANY MUNICIPAL WATER FINANCE AUTHORITY**  
**EXPENSE DETAIL BY DEPARTMENT**  
**June 30, 2018**

Account Description	May		June		2017	
	Balance Forward	MTD Debits	MTD Credits	Ending Balance	MTD Balance	MTD Balance
Department 8310 - Water Administration						
Salaries	486,026.81	122,543.13	-	608,569.94	-	-
Executive	-	-	-	-	49,856.56	49,856.56
Supervisory	-	-	-	-	110,277.18	110,277.18
Professional/Technical	-	-	-	-	273,256.15	273,256.15
Public Safety/Operations	-	-	-	-	-	-
Clerical	-	-	-	-	73,665.69	73,665.69
Temporary Help	1,447.50	2,703.75	-	4,151.25	-	-
Longevity Pay	1,450.00	-	-	1,450.00	29,400.00	29,400.00
Line-up Pay/Clothing Allow	400.00	-	-	400.00	-	-
Overtime	1,580.40	-	-	1,580.40	-	-
Furniture & Fixtures	890.40	99.00	-	989.40	-	-
Supplies & Materials	18,950.52	2,789.42	-	21,739.94	9,844.33	9,844.33
Utilities	20,728.79	4,269.55	-	24,998.34	25,666.72	25,666.72
Contracted Services	13,035.66	19,129.75	-	32,165.41	21,553.86	21,553.86
Printing & Binding	1,854.74	-	-	1,854.74	1,691.02	1,691.02
N.Y.S.P.I.N.	-	-	-	-	-	-
Fees & Services	951.80	-	-	951.80	355.00	355.00
Miscellaneous	211.05	87.42	-	298.47	575.68	575.68
Training/Conferences	7,937.08	687.78	-	8,624.86	1,172.56	1,172.56
Postage	20,541.53	213.13	-	20,754.66	21,836.60	21,836.60
Social Security	36,665.60	9,508.07	133.88	46,039.79	38,585.14	38,585.14
Hospital & Medical Ins.	89,089.22	23,003.90	5,790.45	106,302.67	92,101.71	92,101.71
Department 8310 - Water Administration Totals	<b>701,761.10</b>	<b>185,034.90</b>	<b>5,924.33</b>	<b>880,871.67</b>	<b>749,838.20</b>	<b>749,838.20</b>

**ALBANY WATER BOARD**  
**ALBANY MUNICIPAL WATER FINANCE AUTHORITY**  
**EXPENSE DETAIL BY DEPARTMENT**  
**June 30, 2018**

Account Description	May		June		2017	
	Balance Forward	MTD Debits	MTD Credits	Ending Balance	MTD Balance	MTD Balance
Department 8320 - Source of Supply, Power						
Salaries	229,161.77	64,176.69	-	293,338.46	-	-
Supervisory	-	-	-	-	5,502.03	5,502.03
Professional/Technical	-	-	-	-	88,311.59	88,311.59
Public Safety/Operations	-	-	-	-	182,074.65	182,074.65
Clerical	-	-	-	-	15,885.35	15,885.35
Temporary Help	1,557.25	4,867.25	-	6,424.50	560.00	560.00
Line-up Pay/Clothing Allow	3,360.00	200.00	-	3,560.00	2,640.00	2,640.00
Overtime	24,573.79	6,593.38	-	31,167.17	24,542.15	24,542.15
Vehicles	-	-	-	-	-	-
Other Equipment	10,315.24	-	-	10,315.24	4,948.99	4,948.99
Supplies & Materials	10,569.72	464.96	-	11,034.68	7,616.91	7,616.91
Fuel Oil	2,284.80	-	-	2,284.80	1,544.56	1,544.56
Uniforms	-	-	-	-	-	-
Gasoline	3,624.83	1,552.14	-	5,176.97	2,774.35	2,774.35
Utilities	22,710.40	5,893.97	-	28,604.37	24,578.44	24,578.44
Contracted Services	5,785.55	-	-	5,785.55	1,771.48	1,771.48
Miscellaneous	183.19	-	-	183.19	25.00	25.00
Training/Conferences	284.38	272.21	-	556.59	1,081.20	1,081.20
Social Security	19,758.57	5,712.71	66.94	25,404.34	24,272.84	24,272.84
Hospital & Medical Ins.	72,476.89	19,022.11	4,753.90	86,745.10	81,011.79	81,011.79
Department 8320 - Source of Supply, Power/Fuels	<b>406,646.38</b>	<b>108,755.42</b>	<b>4,820.84</b>	<b>510,560.96</b>	<b>469,141.33</b>	<b>469,141.33</b>

**ALBANY WATER BOARD**  
**ALBANY MUNICIPAL WATER FINANCE AUTHORITY**  
**EXPENSE DETAIL BY DEPARTMENT**  
**June 30, 2018**

Trial Balance Listing Account Description	May		June		2017	
	Balance Forward	MTD Debits	MTD Credits	Ending Balance	MTD Balance	MTD Balance
Department 8330 - Purification						
Salaries	475,119.27	113,496.34	-	588,615.61	-	-
Supervisory	-	-	-	-	-	-
Professional/Technical	-	-	-	-	123,362.08	123,362.08
Public Safety/Operations	-	-	-	-	340,334.17	340,334.17
Trades	-	-	-	-	-	-
Line-up Pay/Clothing Allow	4,600.00	-	-	4,600.00	4,400.00	4,400.00
Overtime	36,544.07	6,920.64	-	43,464.71	31,954.61	31,954.61
Vehicles	-	-	-	-	-	-
Other Equipment	-	-	-	-	-	-
Laboratory Equipment	4,239.00	101.64	-	4,340.64	14,066.31	14,066.31
Filtration Plant Equip	14,852.43	6,556.02	-	21,408.45	35,932.10	35,932.10
Supplies & Materials	53,876.37	7,730.45	-	61,606.82	16,229.70	16,229.70
Fuel Oil	51,498.64	-	-	51,498.64	40,067.17	40,067.17
Uniforms	-	-	-	-	-	-
Chemicals	140,867.03	19,996.66	-	160,863.69	147,969.57	147,969.57
Utilities	14,892.08	4,627.97	-	19,520.05	49,713.30	49,713.30
Contracted Services	28,816.12	9,890.76	-	38,706.88	39,009.73	39,009.73
Miscellaneous	61.00	-	-	61.00	561.00	561.00
Training/Conferences	6,977.72	180.00	-	7,157.72	4,905.00	4,905.00
Residuals Management	-	-	-	-	-	-
Social Security	38,944.31	8,862.41	-	47,806.72	37,666.11	37,666.11
Hospital & Medical Ins.	117,433.74	25,306.57	5,747.55	136,992.76	110,898.30	110,898.30
Department 8330 - Purification Totals	988,721.78	203,669.46	5,747.55	1,186,643.69	997,069.15	997,069.15

**ALBANY WATER BOARD**  
**ALBANY MUNICIPAL WATER FINANCE AUTHORITY**  
**EXPENSE DETAIL BY DEPARTMENT**  
**June 30, 2018**

Trial Balance Listing Account Description	May		June		2017 MTD Balance
	Balance Forward	MTD Debits	MTD Credits	Ending Balance	
Department 8340 - Transmission & Dist.					
Salaries	799,959.32	192,451.40	860.63	991,550.09	-
Supervisory	-	-	-	-	194,839.51
Professional/Technical	-	-	-	-	21,644.22
Public Safety/Operations	-	-	-	-	788,617.31
Trades	-	-	-	-	-
Temporary Help	-	-	-	-	525.00
Line-up Pay/Clothing Allow	9,000.00	200.00	-	9,200.00	10,200.00
Overtime	127,625.68	27,200.80	-	154,826.48	184,534.30
Vehicles	-	-	-	-	63,225.00
Other Equipment	7,257.46	19.97	-	7,277.43	115,049.06
Equipment Streets & Sidewalks	-	-	-	-	-
Supplies & Material Svs.	86,051.86	10,851.38	-	96,903.24	57,919.03
Supplies - Trans. & Dist.	96,882.41	52,444.12	-	149,326.53	128,240.18
Uniforms	-	-	-	-	-
Gasoline	55,157.23	-	-	55,157.23	51,041.09
Supp./Materl-Meter Repair	10,412.89	-	-	10,412.89	19,618.39
Utilities	29,726.22	7,121.76	-	36,847.98	37,330.00
Motor Vehicle Expense	58,695.85	10,158.28	-	68,854.13	30,040.76
Expense of Litigation	-	-	-	-	-
Contracted Services	45,264.40	53,846.11	24,143.00	74,967.51	79,284.18
Miscellaneous	295.61	-	-	295.61	45.00
Training/Conferences	1,751.95	-	-	1,751.95	-
Social Security	69,649.33	15,863.95	57.68	85,455.60	87,674.81
Hospital & Medical Ins.	242,012.17	57,093.24	15,930.38	283,175.03	319,592.04
Department 8340 - Transmission & Dist. Totals	<b>1,639,742.38</b>	<b>427,251.01</b>	<b>40,991.69</b>	<b>2,026,001.70</b>	<b>2,189,419.88</b>
<b>Grand Total</b>	<b>4,804,947.27</b>	<b>1,157,420.58</b>	<b>62,309.76</b>	<b>5,900,058.09</b>	<b>5,757,213.79</b>

# Utility Billing Aging Report

User: jslafresne  
 Print: 07/12/2018 - 1:57 PM  
 Job: WATER\_SE  
 Date: 06/30/2018  
 Unit: 005, 007  
 Note: All accounts  
 Acc: Trans  
 Amt: Active  
 Desc: 0.00  
 Detail: 0.00  
 Print: Customer Number

Acct	Acct Status	Bal Fwd	Bal Under 30	Bal 30 to 60	Bal 60 to 90	Bal 90 to	Bal Over
31531-000	Active	34.91	0.00	0.00	34.91	0.00	0.00
O'EYMAN'S HOLLOW FIRE COMPANY							
31581-000	Active	44.54	0.00	0.00	44.54	0.00	0.00
TOWN OF GUILDERLAND							
32467-000	Active	69.82	0.00	0.00	34.91	0.00	34.91
O'EYMAN'S HOLLOW FIRE COMPANY							
Aged Totals		149.27	0.00	0.00	114.36	0.00	34.91
Credit Totals		0.00					
Totals		149.27					
35491-000	Active	3,198.66	3,198.66	0.00	0.00	0.00	0.00
ERIZON							
35492-000	Active	2,248.14	2,248.14	0.00	0.00	0.00	0.00
ERIZON							
35679-000	Active	9,160.48	9,160.48	0.00	0.00	0.00	0.00
WASHINGTON LLC							
38140-000	Active	550.02	550.02	0.00	0.00	0.00	0.00
LBANY HOUSING AUTHORITY							
38141-000	Active	2,413.68	2,413.68	0.00	0.00	0.00	0.00
LBANY HOUSING AUTHORITY							
16566-000	Active	1,564.62	1,564.62	0.00	0.00	0.00	0.00
AYVILLE BROWNING PROPERTIES INC							
16856-000	Active	0.70	0.70	0.00	0.00	0.00	0.00
LBANY MEDICAL CENTER							
16858-000	Active	79,990.08	79,990.08	0.00	0.00	0.00	0.00
LBANY MEDICAL CENTER							
31582-000	Active	608.76	608.76	0.00	0.00	0.00	0.00
SX TRANSPORTATION-48534							
31633-000	Active	1,990.41	1,990.41	0.00	0.00	0.00	0.00
UCKEY ALBANY TERMINAL LLC							
31832-000	Active	0.04	0.04	0.00	0.00	0.00	0.00
ETERANS HOSPITAL ADMIN							
31833-000	Active	2,835.54	2,835.54	0.00	0.00	0.00	0.00
ETERANS HOSPITAL ADMIN							
31834-000	Active	2,579.22	1,628.70	950.52	0.00	0.00	0.00
ETERANS HOSPITAL ADMIN							
31835-000	Active	14,674.18	14,674.18	0.00	0.00	0.00	0.00
ETERANS HOSPITAL ADMIN							
32215-000	Active	410,284.65	399,077.40	11,207.25	0.00	0.00	0.00
ETERANS HOSPITAL ADMIN							
32274-000	Active	4,705.55	211.46	162.34	132.44	132.44	4,066.87
JNY-ALBANY NANO							

Utility Billing  
Aging Report

ser iduifresac  
 OGER, MARTEL  
 12492-090 Active  
 F PETERS HOSPITAL

ysel 007	Aged Totals	0.00	69.82	69.82	0.00	0.00	0.00
	536,814.55	0.00	520,162.69	132.44	12,320.11	132.44	4,066.87
<b>Totals</b>	<b>536,814.55</b>	<b>0.00</b>					
<b>Aged Grand Totals</b>	<b>536,963.82</b>	<b>0.00</b>	<b>520,162.69</b>	<b>246.80</b>	<b>12,320.11</b>	<b>132.44</b>	<b>4,101.78</b>
<b>Credit Grand Totals</b>							
<b>Grand Totals</b>							

**Route 7 - YTD Billings - as of 6/30/18**

<b>Customer Group</b>	<b>2017</b>	<b>2018</b>	<b>YoY Change</b>
TMG-ALBANY 1 LP	14,773.68	27,086.92	12,313.24
SUNY-ALBANY NANO	2,127,303.12	2,299,307.40	172,004.28
OGS-BUSINESS SERVICE CENTER	1,302,881.46	1,124,001.18	(178,880.28)
DEPT OF HEALTH	45,845.20	88,415.50	42,570.30
ST PETERS HOSPITAL	295,739.54	319,604.92	23,865.38
SUNY-ALBANY	1,202,895.06	1,155,256.95	(47,638.11)
VETERANS HOSPITAL ADMIN	99,082.66	119,375.84	20,293.18
BUCKEYE ALBANY TERMINAL, LLC	24,600.19	40,185.90	15,585.71
AFF107 CORP. D/B/A HILTON ALBANY	101,889.00	86,543.60	(15,345.40)
ALBANY HOUSING AUTHORITY	38,666.94	21,253.20	(17,413.74)
TIMES UNION CENTER	25,730.56	15,800.56	(9,930.00)
ALBANY MEDICAL CENTER	396,478.20	365,651.60	(30,826.60)
ALBANY MEMORIAL HOSP. 3226-4017	97,348.50	112,548.40	15,199.90
CSX TRANSPORTATION-48534	9,246.21	4,592.40	(4,653.81)
NYS OFF OF MENTAL HEALTH 50980	5,991.48	10,845.54	4,854.06
ULTRE PET, LLC	206,658.70	213,215.90	6,557.20
TOWN OF GUILDERLAND	1,647.98	44.54	(1,603.44)
TERESIAN HOUSE	33,788.62	30,371.02	(3,417.60)
VERIZON	23,530.14	23,631.60	101.46
SAYVILLE BROWNING PROPERTIES INC	9,691.76	8,703.86	(987.90)
CENTRAL TOWERS PRESERVATION LT	70,335.76	69,991.66	(344.10)
99 WASHINGTON LLC	35,957.82	36,352.96	395.14
COEYMANS HOLLOW FIRE COMPANY	69.82	69.82	-
MARTEL	1,048.80	937.72	(111.08)
TOWN OF BETHLEHEM	850,500.00	850,500.00	-
THE PEOPLE OF THE STATE OF	418.92	418.92	-
PSEG POWER NY INC	-	-	-
<b>Total</b>	<b>7,022,120.12</b>	<b>7,024,707.91</b>	<b>2,587.79</b>

	BW.0630	BW.0630.A	BW.0630.TA	BW.0384	Due (to)/from	Change
January	-	(11,653,499.80)	(1,184.42)	15,765,008.47	4,110,324.25	(154,262.18)
February		(11,705,019.26)	(1,184.42)	15,765,008.47	4,058,804.79	(51,519.46)
March		(8,120,684.87)	(1,184.42)	15,765,008.47	7,643,139.18	3,584,334.39
April		(10,840,104.27)	(144,100.05)	15,742,664.75	4,758,460.43	(2,884,678.75)
May		(10,976,499.87)	1,559.61	15,742,664.75	4,767,724.49	9,264.06
June		(11,397,513.47)	1,559.61	15,742,664.75	4,346,710.89	(421,013.60)
July					-	(4,346,710.89)
August					-	-
September					-	-
October					-	-
November					-	-
December					-	-

Department of Water and Water Supply - 2018 Key Performance Indicators and Critical Numbers Dashboard

Parameter	Annual Goal or YTD	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
		well over goal at goal caution unacceptable - corrective action required												
Water/Sewer Revenue	\$37,725,000	\$3,235,216	\$2,751,553	\$2,886,323	\$2,260,634	\$3,344,689	\$2,921,121	\$2,066,378	\$3,398,014	\$3,133,882	\$3,304,694	\$1,316,953	\$7,105,743	\$37,725,000
Budget		\$3,235,216	\$2,751,553	\$2,886,323	\$2,260,634	\$3,344,689	\$2,921,121	\$2,066,378	\$3,398,014	\$3,133,882	\$3,304,694	\$1,316,953	\$7,105,743	\$37,725,000
Actual MTD		\$3,791,909	\$2,311,164	\$2,740,517	\$1,284,866	\$3,881,121	\$3,004,530	\$1,748,168	\$3,398,014	\$3,133,882	\$3,304,694	\$1,316,953	\$7,105,743	\$37,725,000
Budget YTD/MTD		\$3,235,216	\$2,751,553	\$2,886,323	\$2,260,634	\$3,344,689	\$2,921,121	\$2,066,378	\$3,398,014	\$3,133,882	\$3,304,694	\$1,316,953	\$7,105,743	\$37,725,000
Actual YTD/MTD		\$3,791,909	\$2,311,164	\$2,740,517	\$1,284,866	\$3,881,121	\$3,004,530	\$1,748,168	\$3,398,014	\$3,133,882	\$3,304,694	\$1,316,953	\$7,105,743	\$37,725,000
% Actual MTD vs Budget MTD		117.21%	83.99%	94.95%	56.84%	116.04%	102.86%							
% Actual YTD vs Budget YTD	97.82%													
Operating Expenses (non-Capital Exp.)	\$31,110,484	\$2,189,296	\$1,623,607	\$5,302,218	\$1,623,607	\$1,623,607	\$2,052,218	\$1,623,607	\$1,623,607	\$3,749,287	\$4,873,607	\$1,623,607	\$3,202,218	\$31,110,484
Budget		\$2,189,296	\$1,623,607	\$5,302,218	\$1,623,607	\$1,623,607	\$2,052,218	\$1,623,607	\$1,623,607	\$3,749,287	\$4,873,607	\$1,623,607	\$3,202,218	\$31,110,484
Actual MTD		\$1,387,948	\$1,012,138	\$1,451,800	\$4,186,470	\$1,264,814	\$1,174,168	\$1,174,168	\$1,174,168	\$2,623,334	\$3,304,694	\$1,174,168	\$2,623,334	\$26,233,334
Budget YTD/MTD		\$2,189,296	\$1,623,607	\$5,302,218	\$1,623,607	\$1,623,607	\$2,052,218	\$1,623,607	\$1,623,607	\$3,749,287	\$4,873,607	\$1,623,607	\$3,202,218	\$31,110,484
Actual YTD/MTD		\$1,387,948	\$1,012,138	\$1,451,800	\$4,186,470	\$1,264,814	\$1,174,168	\$1,174,168	\$1,174,168	\$2,623,334	\$3,304,694	\$1,174,168	\$2,623,334	\$26,233,334
% Actual vs Budget YTD	72.95%	63.40%	62.34%	27.38%	257.85%	77.90%	57.21%							
Net Operating Cash Flows	\$6,645,885	\$2,402,199	\$1,295,381	\$1,311,496	-\$2,882,333	\$2,630,237	\$1,964,235							
Actual MTD/YTD		\$2,402,199	\$1,295,381	\$1,311,496	-\$2,882,333	\$2,630,237	\$1,964,235							
Net Cash Flow after debt service and capital project costs	\$2,829,955	\$1,990,866	\$884,048	\$900,163	-\$2,951,433	\$1,302,748	\$808,893							
Grant Income	\$648,520	\$0	\$0	\$0	\$377,849	\$0	\$270,871							
Capital Project Expenses (all)	\$1,996,451	\$0	\$0	\$0	\$35,417	\$916,156	\$1,044,879							
Rt 7 Accounts Receivable	Total	\$1,748,500	\$1,150,961	\$808,671	\$1,525,429	\$1,139,508	\$536,964							
>120		\$4,497	\$7,552	\$4,921	\$5,110	\$5,096	\$4,102							
90-120		\$772	\$4,782	\$7,522	\$816	\$634	\$132							
60-90		\$0	\$13,588	\$11,598	\$3,558	\$2,394	\$247							
30-60		\$521,786	\$395,385	\$21,656	\$607,681	\$376,929	\$12,320							
current		\$1,221,425	\$728,653	\$762,973	\$917,415	\$758,204	\$520,163							
Due from City		\$4,110,324	\$4,058,805	\$7,463,139	\$4,758,460	\$4,767,724	\$4,346,711							

Department of Water and Water Supply - 2018 Key Performance Indicators and Critical Numbers Dashboard

Parameter	Annual Goal or YTD												YTD
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Injury Reports (New)	7	4	4	2	6	5							28
Total Reports Submitted	3	0	0	1	3	4							11
Total resulting in Medical Treatment	2	0	0	1	3	3							9
Total resulting in Time Loss	4	0	0	2	17	50							73
Lost Work Days (injuries)	20	9	0	4	3	0							36
Water Main Breaks * .48-inch, ** 36-inch transmission line	0	4	0	3	1	1							9
Sewer Repairs includes storm sewer repairs	3	2	4	10	9	11							39
Valves Repair/Replaced	6	2	6	4	5	8							31
MH Repairs (* = includes vault)	0	6	4	4	8	1							23
Hydrant Replacements/Installs	0	0	0	0	0	1							1
Hydrant Repairs	6	1	3	6	3	3							22
Service Terminations	9	6	4	8	7	5							39
Service Repairs	3	12	15	23	24	11							88
Basin Repairs	0	0	0	0	0	0							0
Frozen Service	0	0	0	1	2	1							4
Curb Box and Rod replaced	0	0	5	12	1	2							20
Valve Box replaced	1	0	0	0	1	0							2
Install Valve	2921.5	1253	1308	911	1343	1154							8890.5
Total Department OT Hrs.													
Total Department OT \$	\$38,462	\$38,461	\$48,077	\$38,462	\$38,461	\$48,077							
Budget MTD	\$80,413	\$33,286	\$45,106	\$29,238	\$38,554	\$44,092							
Actual MTD	\$38,462	\$76,923	\$125,000	\$163,462	\$201,923	\$250,000							
Budget YTD	\$80,413	\$113,699	\$158,805	\$185,043	\$221,597	\$265,689							
Actual YTD	269.97%	68.59%	93.82%	88.22%	95.04%	91.71%							
% Budget MTD	269.97%	197.91%	127.94%	113.20%	109.74%	106.28%							
% Budget YTD	106.28%												

well over goal  
at goal  
caution  
unacceptable - corrective action required

Department of Water, and Water Supply - 2018 Key Performance Indicators and Critical Numbers Dashboard

Parameter	Annual Goal or YTD	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
		Indicators												
Alicove Elevation (first of month)	MTD/YTD	611.43	612.38	614.40	617.34	618.31	617.84	616.56						
% capacity		76.1%	79.3%	86.5%	97.5%	100.00%	99.4%	94.49%						
% average month (period of record)		94.0%	95.8%	93.6%	100.4%	105.6%	106.7%	106.00%						
spill days		0	0	0	25	24								
Water Produced														
Monthly total (million gallons)	3187.416	555.703	490.636	529.472	511.348	535.041	565.216							3187.416
Daily average (MGD)	17.612	17.926	17.523	17.080	17.044	17.259	18.841							17.612
ACS monthly avg flow (MGD)														
contracted flow		21.02	24.31	26.77	23.70	21.65	18.11							
total		24.69	28.25	30.82	27.79	25.67	21.92							
Sewer PM														
Total LF Cleaned	186890	4863	8359	29130	46013	50903	47622							186890
PM LF Cleaned	161412	1954	4805	25650	38631	46202	44170							161412
LF Camera Inspected	12988	418	760	3032	5519	2338	921							12988
Leak Detection														
Blocks Tested	454	66	160	108	0	0	120							454
Leaks Detected	8	1	2	3	0	0	2							8
Orions Installed														
	150	29	21	38	28	26	8							150

# Preliminary Engineering Report



## City of Albany CSO Abatement & Flood Mitigation | 2018 Program

Albany Water Board

June 28, 2018



## EXECUTIVE SUMMARY

The Albany Water Board (AWB) is working collaboratively on a regional basis with the Cities of Cohoes, Rensselaer, Troy, Watervliet and the Village of Green Island to reduce combined sewer discharges to receiving waters in order to maintain compliance with the Clean Waters Act (CWA) standards (NYSDEC Consent Order Case # CO4-20120911-01); and improve water quality conditions to support waterfront recreational activities and development efforts throughout the Capital District. The Albany Pool Combined Sewer Overflow (CSO) Long Term Control Plan (LTCP) has been developed in accordance with the USEPA CSO Policy utilizing a regional watershed approach. The Albany Pool CSO LTCP provides for the specific Program Definition and Schedule of Compliance for a \$135 million regional plan (or program) which addresses the CWA water quality standards and requirements. The LTCP utilizes a combination of "grey" strategies and "green" practices to develop solutions to provide for the improvement of infrastructure and support the sustainability of important Capital District communities.

A local development corporation has been formed to execute the program requirements defined in the Albany Pool CSO LTCP. The Albany Pool project is an unprecedented and successful effort in inter-municipal and regional planning, with the six municipalities collaborating to develop and implement the LTCP. Through a shared service approach, the communities are jointly achieving the maximum benefits for their respective resource allocations and capital investments. The Albany Pool CSO LTCP will effectively serve to protect, preserve, and enhance surface waters; and will secondarily have positive impacts on air quality, recreation, open space, scenic areas, and historic areas associated with the waterfronts in communities along the Hudson River Estuary.

The AWB and City leadership have set priorities within the City of Albany to further abate combined sewer overflows, sewer system surcharging and surface discharges in accordance with the goals and objectives of the CSO LTCP and the City's SPDES permit. As part of the City's approach under the LTCP, the AWB was specifically requested by the New York State Department of Environmental Conservation (DEC), Division of Water to implement green infrastructure projects and initiatives to further reduce CSOs and improve the water quality conditions for the Hudson River.

In addition to the implementation of numerous green infrastructure projects in recent years (e.g., Quail Street Green Infrastructure Project, Hanson and Ryckman CSO Abatement and Flood Mitigation, etc.), the AWB has also participated with the other Albany Pool Communities (APCs) in the development of a "Green Infrastructure Code Audit and Toolkit" and completed a feasibility study to implement a "Green Infrastructure In-Lieu Fee and Credit Banking System." The projects identified in this report further demonstrate the City's commitment to promoting green infrastructure practices, and support of the overall objectives of the LTCP to capture and reduce wet weather flows from the system to enhance water quality. Furthermore, these projects will be developed to be in compliance with the EPA eligibility requirements for inclusion under the CWSRF Green Project Reserve (GPR). The City of Albany has embraced a progressive, comprehensive approach to implementing green infrastructure practices as a means to provide real solutions to system problems; and continues to develop a model for sustainable "smart infrastructure" for other municipal communities to emulate.

## Hackett Boulevard Corridor

Abatement of the existing surface discharges and mitigation of flooding along the corridor present significant challenges due to the complex nature of the problem. From a local drainage perspective, the system suffers from the lack of proper collection system design. Runoff along the corridor is generally conveyed within long reaches of concrete swales and collected at low spots along the roadway profile. During flash flooding events, inlet grates at the low points are often impacted by heavy debris and sediment that collects; which subsequently reduces the system's inlet capacity and ability to deliver flows to the sewer. In addition, the sewer system has the potential to surcharge resulting in combined sewer surface discharges which further exasperate the flooding and create public health hazards. During periods when the sewer system is surcharged, flood waters simply have no outlet or ability to drain from the flood prone areas.

Proposed mitigation measures intend to employ a combination of both traditional "grey" strategies and "green" infrastructure practices. Specific strategies to abate the surface discharges and flood conditions are as follows:

- In order to abate the surface discharges, the City proposes to disconnect catch basins from the combined sewer system in the areas prone to surcharging. This requires the construction of a new separated storm sewer to convey flood waters to a point downstream where there is available system capacity to receive the flow. Specifically, a new separated trunk sewer is proposed to be constructed beginning in the vicinity of Hackett Boulevard and Holland Avenue, and continuing downstream to Lincoln Park where additional capacity is available. Note, this element will support the City's long-term initiative to achieve greater sewer separation within the system.
- The City intends to construct an enhanced collection system along lower Hackett Boulevard which will improve the collection of stormwater runoff, and significantly reduce the operational issues presently experienced during flash flood events.
- The Albany Water Board intends to implement an initiative to construct additional "off-line" infiltration galleries, working together with other state agencies and private partners, to further abate problems within the combined sewer system and reduce CSOs. This includes measures both within the public right-of-way and adjacent properties along the corridor. The City of Albany is home to many government functions and state agencies. This begins an important initiative whereby the City, state agencies and other private entities develop policies and procedures to work together to improve the management of stormwater from large surface parking lots and buildings within the City's vast commercial and business districts. Over the past years, the AWB has developed relationships with several state agencies by working together on joint initiatives.

The infiltration galleries are proposed in areas where the soils can best promote infiltration, with infiltration rates enhanced using vertical shafts beneath the galleries to allow water to percolate into the underlying sand or gravel layers in the soil strata, where practicable. This approach incorporates techniques and principals commonly utilized in stormwater reclamation and groundwater recharge practices; which are widely applied in the Western United States where the water supply is inadequate and is being affected by drought and climate change conditions. The intent is to enhance the performance properties of the

infiltration galleries through the innovative employment of the vertical shafts in order to best distribute the stormwater runoff to underlying soils which can best promote infiltration and reduce the system loads.

Furthermore, the Albany Water Board intends to manage wet weather flows within the infiltration cells through the employment of their “wastewater smart infrastructure network,” which utilizes a progressive continuous monitoring adaptive control (CMAC) operational platform. This will serve to detain the runoff over longer periods of time to further promote infiltration practices, and optimize the performance of the planned capital investments. Specifically, the CMAC platform will inform the City in regards to the monitoring and management of flows during critical wet weather periods. To date, CMAC systems which have been employed at Washington Park Lake and in Woodlawn Park (i.e., Hanson Infiltration and Stormwater Re-Use Gallery, Ryckman Constructed Wetlands) have captured in excess of 98% of all wet weather flows for those systems – reserving critical conveyance capacity in the sewers while abating surface discharges and flooding in the CSS, and significantly reducing CSO’s to the Hudson River.

### Sheridan Avenue Downtown Intersections

Abatement of the existing surface discharges and mitigation of flooding in the Downtown District also present significant challenges. From a local drainage perspective, the system suffers from the lack of sufficient catch basins along Sheridan Avenue. Runoff along the corridor is generally conveyed down-gradient within the roadway until it reaches to low point at Chapel Street. During flash flooding events, inlet grates at the low points are often impacted by heavy debris and sediment that collects, which subsequently reduces the system’s inlet capacity and ability to deliver flows to the sewer. In addition, the sewer system has the potential to surcharge resulting in combined sewer surface discharges which further exasperate the flooding and create public health hazards. Much like Hackett Boulevard, during periods when the sewer system is surcharged flood waters simply have no outlet or ability to drain from the flood prone areas.

Once again, proposed mitigation measures intend to employ a combination of both traditional “grey” strategies and “green” infrastructure practices. Specific strategies to abate the surface discharges and flood conditions are as follows:

- The Albany Water Board intends to construct additional “off-line” infiltration galleries in the First Church of Albany surface lot and adjacent to the Sheridan Hollow Parking Garage. Once again, it is the City’s intent to work together with the necessary state agencies and private partners to further abate problems within the combined sewer system and reduce CSOs.

The infiltration galleries will be enhanced using vertical shafts beneath the galleries to allow water to percolate into the underlying sand or gravel layers in the soil strata, where practicable. Once again, the performance properties of the infiltration galleries will be enhanced through the innovative employment of the vertical shafts in order to best distribute the stormwater runoff to underlying soils which can best promote infiltration and reduce the system loads.

Furthermore, the Albany Water Board intends to manage wet weather flows within the infiltration cells using their existing CMAC system. This will serve to detain the runoff over longer periods of time to further promote infiltration practices, and optimize the performance of the planned capital investments.

- The City intends to construct an enhanced collection system in the vicinity of the two (2) proposed infiltration galleries which will improve the collection of stormwater runoff, and significantly reduce the operational issues presently experienced during extreme flooding events.
- Furthermore, the City is proposing to disconnect catch basins from the combined sewer system in the areas prone to surcharging.
- Lastly, it is intended to provide additional conveyance capacity downstream of the infiltration gallery within the First Church of Albany surface parking lot to provide a direct connection to the separated storm sewer along N. Pearl Street. This will allow surface runoff previously trapped in the low lying area, between Chapel Street and N. Pearl Street, to more efficiently be conveyed downstream. This will also serve to increase water quality benefits in the Hudson River by improving the performance of downstream floatable controls along Orange Street (presently under construction 2018-2019) and reducing combined sewer overflows.

The infiltration galleries constructed in this sewershed will serve to protect critical parkland in the Corning Preserve which is used for both passive and active recreational activities along the Hudson River corridor; and will improve the City's infrastructure while supporting the sustainability of an important City neighborhood and business district. The project will reduce the levels of CSO's thereby reducing fecal coliform levels and floatable materials conveyed to the Hudson River. In addition, the project will reduce and treat urban stormwater runoff thereby reducing phosphorus, nitrogen, metals and other suspended solids. This project serves to protect the Corning Preserve - the City of Albany's premiere public waterfront park and "connection" to the Hudson River.

The proposed strategies support the City's obligations under the Albany Pool CSO LTCP and serve to advance the initiatives started under the Beaver Creek CSO Abatement and Flood Mitigation Program. In addition, proposed project elements could be used as a means for the Albany Water Board to develop credits under a "Green Infrastructure In-Lieu-Fee and Credit Banking Program." The future sale of established credits could then be utilized to support planned development and expansion of the City's green infrastructure program. Detailed conceptual project budgets have been developed which determine the levels of investment planned for both "grey" strategies and "green" practices. A summary breakdown for the projects is presented below.

**Hackett Boulevard Corridor**

**Conceptual Budget**

<b>Grey Strategies:</b>	<b><u>\$4,650,000</u></b>
Trunk Sewer from Hackett Boulevard to Lincoln Park	\$1,950,000
Improved Collection System along Lower Hackett Boulevard	\$1,730,000
Collection System Modifications for Upper Hackett Boulevard	\$ 970,000
<b>Green Practices:</b>	<b><u>\$4,150,000</u></b>
Infiltration Gallery at Hackett Boulevard and Holland Avenue	\$1,290,000
Bioretention and Infiltration Galleries for Upper Hackett Boulevard	<u>\$2,860,000</u>
<b>Total Hackett Boulevard Budget</b>	<b><u>\$8,800,000</u></b>

## Sheridan Avenue

<b>Grey Strategies:</b>	<b><u>\$1,640,000</u></b>
Collection System Modifications along Sheridan Avenue	\$1,640,000
<b>Green Practices:</b>	<b><u>\$3,580,000</u></b>
Infiltration Galleries in the First Church of Albany Surface Lot	\$1,480,000
Infiltration Gallery in the Sheridan Hollow Surface Lot	<u>\$2,100,000</u>
<b>Total Sheridan Avenue Budget</b>	<b><u>\$5,220,000</u></b>

The Albany Water Board is aggressively applying for grant funding in support of the project through the EFC Integrated Solutions Construction (ISC) Grant Program and the CFA Program. As a means to further develop and promote the City’s Green Infrastructure Program, the Albany Water Board plans to pursue additional grant funding through the CFA process to specifically advance the development and implementation of the Green Infrastructure In-Lieu-Fee and Credit Banking Program. It is envisioned that the model which the City is creating could be used by other New York State municipalities to advance similar efforts to promote comprehensive green infrastructure programs.

Providing solutions to mitigating the existing problems along Hackett Boulevard and Sheridan Avenue are a priority for the Albany Water Board and City leadership. The Albany Water Board intends to move forward with preliminary design for these initiatives, and anticipates being ready to solicit bids in early 2019. Completion of the work would be anticipated in 2020, pending available funding for the projects.

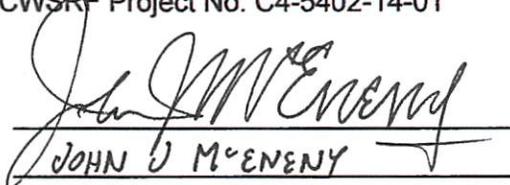
By improving the water quality in the Hudson River, this program supports sustainability initiatives set forth in the Hudson River Estuary Action Plan to improve public access and recreation uses; as well as the goals and objectives defined within the approved Albany Pool CSO Long Term Control Plan to further improve the water quality in receiving waters in the Capital District. Furthermore, improvements to the water quality of the Hudson River supports revitalization efforts to "re-connect communities to the river"; as well as important regional economic investment/development efforts along the Hudson River corridor.

**ACKNOWLEDGEMENT AND ACCEPTANCE OF WIIA GRANT AWARD**

Please confirm your community's acceptance of the additional WIIA grant for CWSRF Project No. C4-5402-14-01 by signing and providing the milestone information below. Please e-mail the completed form to [nyswatergrants@efc.ny.gov](mailto:nyswatergrants@efc.ny.gov) no later than July 20, 2018.

**ACKNOWLEDGED:**

Albany Municipal Water Finance Authority  
Albany Pool CSO Long Term Control Plan (2018-2022)  
CWSRF Project No. C4-5402-14-01

  
\_\_\_\_\_  
JOHN J McENENY  
\_\_\_\_\_  
Chairman

(Signature of Authorized Representative)

(Print Name)

(Title)

9<sup>th</sup> July 2018 (Date)



**Environmental  
Facilities Corporation**

ANDREW M. CUOMO  
Governor  
SABRINA M. TY  
President and CEO

July 2, 2018

Mr. Michael J. Hall  
Chairman  
Albany Municipal Water Finance Authority  
38 Erie Boulevard  
Albany, NY 12204

Re: CWSRF Project No. C4-5402-14-01  
Albany Pool CSO Long Term Control Plan (2018-2022)  
Albany Municipal Water Finance Authority  
Albany County  
**Increase in WIIA Grant Award**

Dear Chairman Hall:

On behalf of Governor Andrew M. Cuomo, I am pleased to inform you that because of changes to the maximum grant award amount in the New York State Water Infrastructure Improvement Act (WIIA) program, your community's grant for the above referenced project has been increased from \$989,177 to \$2,501,969.

Your grant is calculated based on the amount of your short-term financing, including total estimated eligible project costs. The New York State Environmental Facilities Corporation (EFC) will determine the actual amount of your grant when the project is complete and EFC confirms the final project costs. Your grant may be reduced if total project costs are less than anticipated or if your project receives grant from another source.

Please confirm your acceptance of the increased grant award by completing and signing the enclosed form and e-mailing it to [nyswatergrants@efc.ny.gov](mailto:nyswatergrants@efc.ny.gov) no later than **July 20, 2018**.

Upon receipt of the confirmation, members of our project team will contact you to discuss if you would like to amend your short-term financing to apply the grant, or apply the grant upon conversion to long-term financing. We look forward to working with you on your water quality improvement project.

Sincerely,

Sabrina M. Ty  
President and CEO

Enclosure(s)

cc: Albany Municipal Water Finance Authority – Mr. William D. Simcoe, P.E.  
CHA Consulting, Inc. – Mr. Michael F. Miller, P.E. (email)

# WIIA Clean Water Grant

CLEAN WATER

- The lesser of **25%** of total net eligible project costs, including phases of the project, or

Project Cost	Maximum Grant Award
Less than \$50 Million	<b>\$5 Million</b>
Equal to or greater than \$50 Million but less than \$100 Million	<b>\$12.5 Million</b>
Equal to or greater than \$100 Million	<b>\$25 Million</b>

# WIIA Clean Water Grant



- No municipality may receive more than **\$5 million** in CWSRF grant and/or WIIA grant per year
- If awarded grant(s) exceeds \$5 million, grant(s) will be allocated over multiple years in increments not to exceed \$5 million per year
- The following EFC grant programs do not count toward the \$5 million maximum:
  - ✓ Engineering Planning Grants (EPG)
  - ✓ Green Innovation Grant Program (GIGP) grants
  - ✓ Integrated Solutions Construction (ISC) grants



CITY OF ALBANY  
 DEPARTMENT OF WATER & WATER SUPPLY  
 10 NORTH ENTERPRISE DRIVE  
 ALBANY, NEW YORK 12204  
 TELEPHONE (518) 434-5300  
 FAX (518) 434-5332

KATHY M. SHEEHAN  
 MAYOR

JOSEPH E. COFFEY, JR., P.E.  
 COMMISSIONER

**CHANGE ORDER**

CHANGE ORDER NO.: **03**  
 DATE OF ISSUE: **July 24, 2018**  
 CONTRACT NO.: **8927**  
 CONTRACT DATE: **October 10, 2017**  
 PROJECT NAME: **2017 Large Diameter Trunk Sewer Rehabilitation**  
 CONTRACTOR'S NAME: **Arold Construction Company, Inc.**  
 CONTRACTOR ADDRESS: **51 Powder Mill Bridge Road, Kingston, NY 12401**  
 CONTRACTOR PHONE: **(845) 336-8753**

CHANGE IN CONTRACT AMOUNT

Original Contract Amount	<b>\$ 833,000.00</b>
Contract Amount after Previous Change Order	<b>\$ 833,000.00</b>
Change Due to this Change Order	<b>\$ 246,500.00</b>
New Contract Amount Including this Change Order	<b>\$ 1,079,500.00</b>

**\* See attached Contractor cost proposal**

CHANGE IN CONTRACT TIME

Original Contract Completion Date	<b>February 6, 2018</b>
Original Contract Time	<b>120 Days</b>
Contract Completion Date after previous Change Orders	<b>August 31, 2018</b>
Contract Time after previous Change Orders	<b>327 Days</b>
Contract Completion Date due to this Change Order	<b>September 30, 2018</b>
Contract Time after this Change Order	<b>357 Days</b>

**\* See attached Contractor time proposal**

APPROVALS

ENGINEER: \_\_\_\_\_ Date: \_\_\_\_\_

CONTRACTOR: \_\_\_\_\_ Date: \_\_\_\_\_

ALBANY WATER BOARD: \_\_\_\_\_ Date: \_\_\_\_\_

**(Attach Board Resolution)**

# CHANGE ORDER

CHANGE ORDER NO: 03  
CONTRACT NO: 8927  
PROJECT NAME: 2017 Large Diameter Trunk Sewer Rehabilitation

## DESCRIPTION OF CHANGE

Narrative description:

**Additional trunk sewer lines have been inspected for 2018-19 lining. During inspection a severely damaged portion of brick pipe was identified in the 60-inch diameter brick trunk sewer line at a location in Washington Park along the lake. In the attached condition report it can be seen that the pipe has holes in it and is missing a layer of brick in a large area. The segment length of this sewer pipe is 340 feet from manhole to manhole. This is an urgent repair and can be completed at a reasonable price since the Contractor is nearby with the necessary equipment. The Contractor's time and cost proposal for the cleaning, patching, by-pass pumping, and lining of the brick sewer is attached.**

Change Description	Additional Cost
Cleaning, patching, and lining 340 feet of 60 inch diameter pipe	\$ 246,500.00
<b>Change Order Amount</b>	<b>\$ 246,500.00</b>

Drawing reference(s): **See attached location map with labels.**

Specification reference(s): **All additional lining shall follow the contract specifications.**

## REASON FOR CHANGE

Necessity for change:

**The segment found is in critical condition and needs immediate attention. The holes in the pipe and missing brick are a significant structural deficiency that can lead to pipe failure.**

Why this was not foreseen during the design:

**This segment of pipe was not inspected by camera until 2018.**

Other alternatives:

**Arold Construction, Inc. uses a spray lining technique that does not require wet weather by-pass pumping. Other types of lining would require massive by-pass pumps and pipes. Other types of lining also require more above ground preparation and disruption.**

## CHANGE ORDER

Cost-effectiveness of this alternative:

**Waiting to line the pipe any longer may result in a failure due to the bad condition of the pipe. If this happened the cost to repair would be much higher. The use of another lining technology would be difficult due to the pumping requirements.**

### CHANGE TO SCHEDULE OF VALUES

Details of change:

**The schedule of values will now include a new Washington Park Lake segment. The actions at this segment will be repair, cleaning, by-pass pumping, and lining.**



### Inspection report

Date : <b>6/20/2018</b>	Work Order :	Weather : <b>Dry</b>	Surveyed By : <b>T.KUKLINSKI</b>	Certificate Number : <b>---</b>	Pipe Segment Ref. : <b>11</b>
Year laid :	Pre-cleaning : <b>No Pre-Cleaning</b>	Direction : <b>Downstream</b>	Pipe Joint Length :	Total Length : <b>338.4</b>	Length Surveyed : <b>338.4</b>

City : <b>ALBANY, NY</b>	Drainage Area :	Upstream MH : <b>28161</b>
Street : <b>WASHINGTON PARK RD</b>	Media Label :	Up Rim to Invert : <b>0.0</b>
Location Code : <b>Easement/Right of way</b>	Flow Control :	Downstream MH : <b>25514</b>
Location Details :	Sheet Number :	Down Rim to Invert : <b>0.0</b>

Pipe shape: <b>Circular</b>	Sewer Use: <b>Combined</b>
Pipe size: <b>60</b>	Sewer Category: <b>SEC</b>
Pipe material: <b>Brick</b>	Purpose: <b>Routine Assessment</b>
Lining Method :	Owner :

Additional Info :

1:2554	Distance	Code	Observation	Counter	Photo	Grade
	0.00	AMH	Manhole / 28161	00:00:22		
	0.00	MWL	Water Level, 5% of cross sectional area	00:00:24		
	7.70	BSV	Broken Soil Visible from 6 o'clock to 11 o'clock	00:01:12		S5
	11.40	HSV	Hole Soil Visible at 10 o'clock	00:02:16		S5
	15.10	H	Hole at 10 o'clock	00:02:40		S3
	35.90	TBI	Tap Break-In Intruding at 10 o'clock, 1inch dim, 1inch intrusion	00:02:44		M2
	338.40	AMH	Manhole / 25514	00:07:58		

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5231	2100	13.0	2.0	15.0	4.3	2.0	3.8

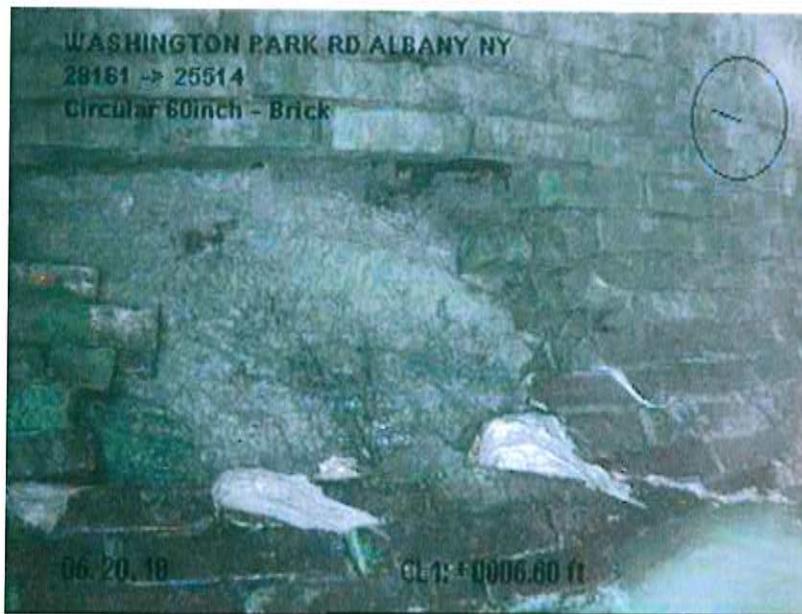


**Section Pictures - 6/20/2018 - 11**

City	Street	Date	Pipe Segment Reference	Nr.
ALBANY, NY	WASHINGTON PARK RD	6/20/2018	11	11



11\_9c539b5a-5462-4839-9c29-1da8964c9803\_20180620\_135626\_390.jpg, 00:01:12, 7.70  
Broken Soil Visible from 6 o'clock to 11 o'clock

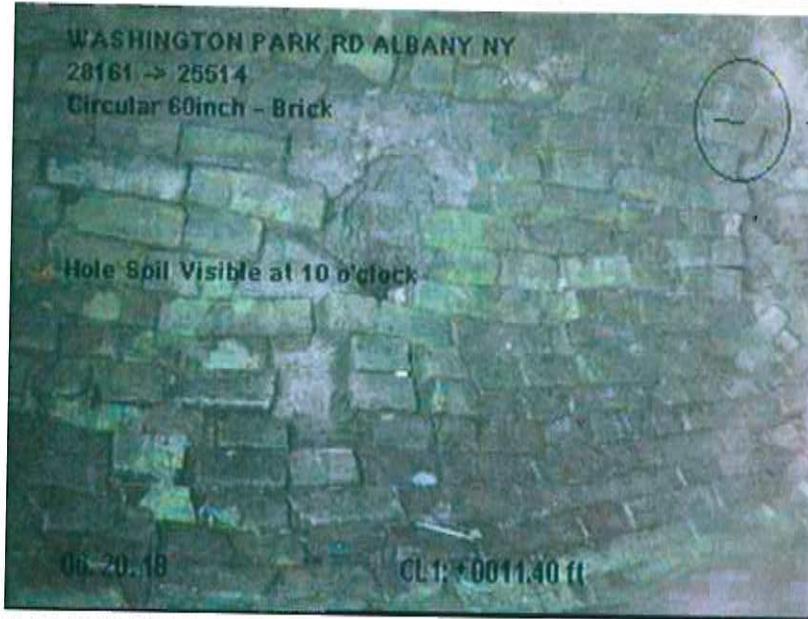


11\_f49a0196-6ef9-48e7-8270-0ebdd26f66d4\_20180620\_135702\_262.jpg, 00:01:12, 7.70  
Broken Soil Visible from 6 o'clock to 11 o'clock

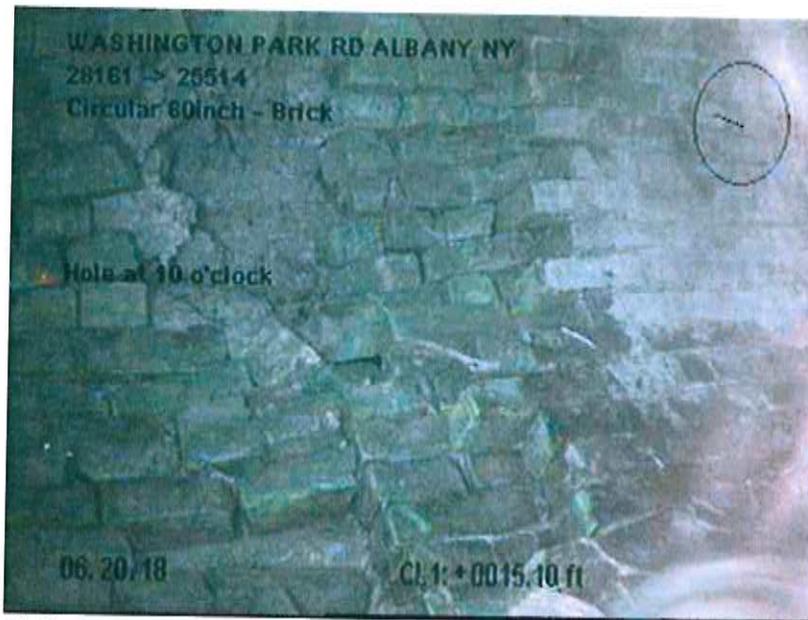


**Section Pictures - 6/20/2018 - 11**

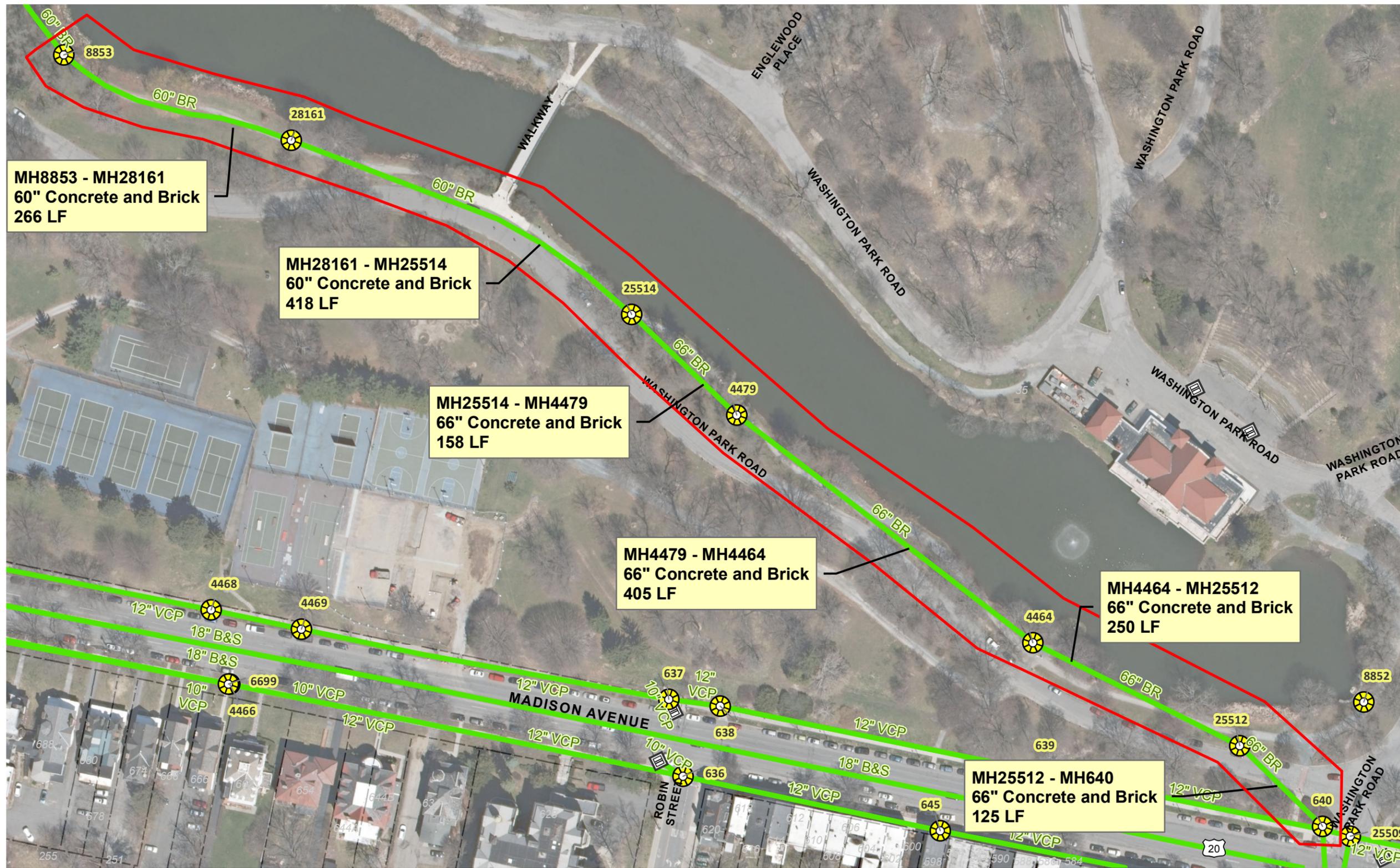
City	Street	Date	Pipe Segment Reference	Nr.
ALBANY, NY	WASHINGTON PARK RD	6/20/2018	11	11



11\_76b18543-d407-4ba2-b85a-9543c1e0c8ad\_20180620\_135738\_786.jpg, 00:02:16, 11.40  
Hole Soil Visible at 10 o'clock



11\_f3ba3605-bea9-419e-9207-ff8039f9fa16\_20180620\_135811\_199.jpg, 00:02:40, 15.10  
Hole at 10 o'clock

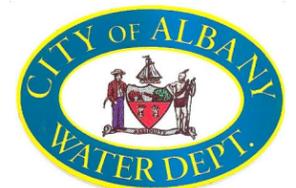


# PIPE CAMERA MAP

SCALE: 1" = 110'



OWNER & ENGINEER:



10 N ENTERPRISE DRIVE  
ALBANY, NY 12204

PROJECT TITLE

## 2018 TRUNK SEWER LINE INVESTIGATION

VARIOUS LOCATIONS  
ALBANY, NY

SHEET TITLE

## DRAWING 2: WASHINGTON PARK PIPE INVESTIGATION

DRAWN BY

KNM

CHECKED BY

RJC

DATE

MAR 26, 2018

PROJECT NO.

DRAWING SCALE

AS SHOWN

REVISIONS

REVIEWED & APPROVED BY

REVISION OR REPRODUCTION OF THIS  
PLAN, OR ANY PORTION THEREOF, IS  
PROHIBITED WITHOUT THE WRITTEN  
PERMISSION OF THE CITY OF ALBANY DEPT.

SHEET NO.

SHEET 2 OF 5

**CHANGE ORDER**

For: City of Albany

Attn: Rebecca Caldon, P.E.

Email/Phone: [rcaldon@albanyny.gov](mailto:rcaldon@albanyny.gov) 518-434-5104

Date: 7/20/18

Project: City of Albany Large Diameter Trunk Sewer Rehabilitation

Location: Albany, NY

Arch./Engineer: City of Albany

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Subject to prompt acceptance, within 30 days and to all conditions stipulated, we propose to furnish the following:

Furnish & install Centripipe Lining System manufactured by AP/M Permaform utilizing PL 8,000 on existing 60" diameter by +/- 340' brick combined sewer system from Manhole 28161 to Manhole 25514

Total Price: \$246,500.00



Ryan Aroid  
Vice President

Accepted By:  
**PLEASE FILL OUT TOP HALF OF SECOND PAGE BELOW**

**AROLD** 51 POWDER MILL BRIDGE RD. KINGSTON, NY 12401  
(845) 336-8753 PHONE (845) 336-8245 FAX  
www.aroldconstruction.com  
**CONSTRUCTION COMPANY, INC.**  
**A CERTIFIED WBE & DBE CONTRACTOR**

July 23rd, 2018

Ms. Rebecca Caldon, P.E  
City of Albany – Department of Water and Water Supply  
10 North Enterprise Drive  
Albany, NY 12204

RE: 2017 Large Diameter Trunk Sewer Rehabilitation  
Albany, NY

Dear Rebecca:

The City of Albany has requested an additional trunk sewer line to be rehabilitated that shows signs of severe deterioration after a recent survey inspection. The trunk line runs along Washington Park Lake which displays large voids of soil and brick missing. Upon the request of the City of Albany, Arold has agreed to complete the additional work. This work will alter the schedule due to making this section of pipe the next priority to address since recently completing a section on Myrtle Ave.

Having to adjust the schedule to accommodate the additional work, Arold feels that completion of the project will now be met by October 1st of 2018.

Thank you for your consideration.

Regards,



Matthew Gardiner  
Project Manager





CITY OF ALBANY  
 DEPARTMENT OF WATER & WATER SUPPLY  
 10 NORTH ENTERPRISE DRIVE  
 ALBANY, NEW YORK 12204  
 TELEPHONE (518) 434-5300  
 FAX (518) 434-5332

KATHY M. SHEEHAN  
 MAYOR

JOSEPH E. COFFEY, JR, P.E.  
 COMMISSIONER

**CHANGE ORDER**

CHANGE ORDER NUMBER: **02**  
 DATE OF ISSUE: **July 6, 2018**  
 CONTRACT NUMBER: **8938**  
 CONTRACT DATE: **March 13, 2018**  
 PROJECT NAME: **City of Albany Floatables Control Project**  
 CONTRACTOR: **Wm. J. Keller & Sons Construction Corp.**  
**145 Route 9**  
**Castleton, NY 12033**  
 CONTRACTOR PHONE: **(518) 732-7782**

CHANGE IN CONTRACT AMOUNT

Original Contract Amount	\$ 7,955,000.00
Contract Amount after Previous Change Order	\$ 7,955,000.00
Change Due to this Change Order	\$ 0.0
New Contract Amount including this Change Order	\$ 7,955,000.00

CHANGE IN CONTRACT TIME

Original Contract Completion	October 11, 2018
Contract Completion after previous Change Order	October 11, 2018
Contract Change due to this Change Order	N/A
New Contract Completion including this Change Order	N/A

APPROVALS

Engineer:

Date: 7.12.18

Michael F. Miller, P.E., CHA

CONTRACTOR:

Date: 7/6/18

John D. Keller, Jr., Wm. J. Keller & Sons Construction

ALBANY WATER BOARD:

Charles G. Houghton III  
 (Attach Board Resolution)

Date: \_\_\_\_\_

# CHANGE ORDER

CHANGE ORDER NO: 02  
 CONTRACT NO: 8938  
 PROJECT NAME: City of Albany Floatables Control Project

DESCRIPTION OF CHANGE

Change order items as pertaining to City of Albany Floatables Control Project:

**Narrative description:**

- **Change Directive #5**  
*Use of Allowance for additional archaeological studies on Jackson Street.*
- **Change Directive #7**  
*Use of Allowance for additional archaeological studies on Steuben Street.*
- **Change Directive #8**  
*Use of Allowance for additional archaeological studies on Quackenbush Square.*
- **Change Directive #9**  
*Use of Allowance for additional archaeological studies on Orange Street.*

Change Description	Reference	Allowance	Change Order
Jackson Street Archaeology	Change Directive #5	\$ 35,568.87	\$ 0.00
Steuben Street Archaeology	Change Directive #7	\$ 11,362.05	\$ 00
Quackenbush Square Archaeology	Change Directive #8	\$ 2,630.23	\$ 0.00
Orange Street-Archaeology	Change Directive #9	7,627.69	
<b>Total</b>		<b>\$ 57,188.84</b>	<b>\$ 0.0</b>

**Drawing reference(s):**

- C-003 Existing Conditions Plan- Steuben Street
- C-004 Existing Conditions Plan-Orange Street
- C-005 Existing Conditions Plan-Quackenbush Square
- C-006 Existing Conditions Plan-Jackson Street/Livingston Avenue

**Specification reference(s):**

N/A

**Attachment(s):**

- Change Directive #5 – Jackson Street Phase 2 Additional Archaeological Studies
- Change Directive #7 – Steuben Street Additional Archaeological Studies
- Change Directive #8 – Quackenbush Square Additional Archaeological Studies
- Change Directive #9 – Orange Street Additional Archaeological Studies

REASON FOR CHANGE

**Necessity for Change:**

Jackson Street/Livingston Avenue site additional archaeological studies were the result of finding colonial age deposits to determine the National Register of Historic Places eligibility of the culture resources.

## CHANGE ORDER

Steuben Street, Quackenbush Square and Orange Street additional studies were a result of not collecting enough information within allotted hours in the bid documents.

**Reasons Items Were Not Included in Design:**

Allowance was included in the contract as it was expected additional archaeological studies would be required.

**Other alternatives:**

No other Alternative.

**Cost-effectiveness of this alternative:**

Not applicable.

CHANGE TO SCHEDULE OF VALUES

No Change to Schedule of Values.

**City of Albany Floatables Control Project**

<u>Total Allowance (Field Order)</u>	\$500,000.00	<b>Cost -Contract Amount</b>	\$7,955,000.00
<u>Allowance Remaining</u>	\$398,263.91	<b>Total Billed</b>	\$373,427.25
<u>Percent Remaining</u>	<u>79.65%</u>	<b>Percent Remaining</b>	<u>95.31%</u>
<u>Percent Job Complete</u>	<u>4.69%</u>		

<u>Allowance Items No.</u>	<u>Description</u>	<u>Cost</u>	
1	Maiden Lane	\$19,793.01	
2	Steuben Street	\$21,117.95	
3	Quackenbush Square	\$3,636.29	
4	Jackson/Livingston redesign		
5	Jackson -Archaeology	\$35,568.87	
6	Extended Bases		
7	Steuben Street-Archaeology	\$11,362.05	
8	Quackenbush Square-Archaeology	\$2,630.23	
9	Orange Street-Archaeology	\$7,627.69	
10	Steuben Street -snowmelt system		
11			
12			
	National Grid-AWD		
	SCADA-AWD		
		<b>Sum =</b>	<b>\$101,736.09</b>

additional test pits

additional test pits

additional test pits

valve engineering

additional studies

structure modifications

additional studies

additional studies

additional studies

additional cost for installing sewer f

**MEMORANDUM OF UNDERSTANDING  
BETWEEN  
TOWN OF COLONIE AND ALBANY WATER BOARD**

**THIS MEMORANDUM OF UNDERSTANDING** (hereinafter ‘MOU’), made and entered into this \_\_\_\_ day of July, 2018 is between the Town of Colonie, a municipal corporation duly authorized under the laws of the State of New York, with its principal offices located at Memorial Town Hall, 534 Loudon Road, Latham, New York 12110 (hereinafter ‘Town’) and the Albany Water Board, a public benefit corporation with its principal offices located at 10 North Enterprise Drive, Albany, New York 12204 (hereinafter ‘Board’), collectively referred to as ‘the Parties’ hereinafter.

**PURPOSE AND SCOPE**

The purpose of this MOU between the Town and Board is to clarify bidding, review and payment procedures with respect to construction of the two (2) water supply interconnects between the Town of Colonie and City of Albany (‘City’) and as set forth in the Intermunicipal Water Supply Agreement (hereinafter ‘Agreement’) between the Town and Board dated June 22, 2017.

**BACKGROUND**

On June 22, 2017 the Parties entered into an Agreement for the construction of a water interconnect and supply of water between the Town and City to provide adequate water in the event of an emergency. Whereas, the Agreement did provide terms for use and maintenance of the system upon completion and distribution of costs related to construction of the system, the Agreement was silent with respect to which party would bid the project, time frames for reimbursement of costs, review and approval of design plans and any possible change orders thereto.

**THEREFORE**, it is mutually understood and agreed upon by the Parties that:

1. The Town shall bid, review and approve the construction project pursuant to New York State and Town bidding procedures (\*The Board has the responsibility of hiring the engineering firm as is set forth in the Agreement).

2. The time period for Payment/Reimbursement for engineering and construction costs, including change orders thereto, if any, shall be made within thirty days (30) days of receipt of invoice by either the Board or Town as applicable.
3. The Board and Town shall review and approve, in writing, the engineering design plans of the water interconnects prior to final plan approval by the Board.
4. During construction, any change orders to the project shall be reviewed and approved by both Parties. In the event of a change order will be processed according to the
5. In any instance where the approval or consent of one party hereto is required or requested under this MOU, such approval or consent shall not be unreasonably delayed or withheld.
6. Invoices and approvals may be sent via email to and from duly authorized persons in the Town and Board as mutually agreed upon.
7. This MOU may be modified upon mutual agreement, as needed, or terminated upon thirty (30) days written notice.
8. This MOU may be executed in two (2) or more counterparts, each of which shall be deemed to be an original, but all of which shall constitute one and the same MOU.
9. This MOU shall be effective as of the latest date of the signatures appearing below.

**TOWN OF COLONIE**

**ALBANY WATER BOARD**

\_\_\_\_\_  
Paula A. Mahan  
Town Supervisor

\_\_\_\_\_  
Charles G. Houghton, III  
Chairman

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_



June 15, 2018

William Simcoe, P.E., Deputy Commissioner  
City of Albany Department of Water & Water Supply  
10 Enterprise Drive  
Albany, New York 12204

Re: Mereline Drive Green Infrastructure/Storm Sewer Separation Project  
Supplement for Additional Engineering Services

File: 1802.004.001

Dear Mr. Simcoe:

Barton & Loguidice, D.P.C. (B&L) has provided to date master planning and preliminary design services associated with the Mereline Drive project. The project has experienced scope changes after some of our planning and early design services were completed so that the Albany Water Board could pursue pending ISC grant funding. This application was not envisioned in the original scope and has required significant revisions to the master planning, summary report and design calculation efforts by our team. Our original efforts advanced an open basin stormwater treatment project while the revised project now includes porous pavement and storage below street pavement options in order to secure ISC funding.

Additionally, our original agreement included a survey allowance of \$12,100 as the full extent of the project was unknown at that time. As the project is now defined, we have solicited and received two quotes for topographic field survey services. The survey fee is now \$20,900; therefore we request a fee increase of \$8,800.

A summary of requested supplemental fees are as follows:

Master Planning:

Original budget-\$20,400 (Lump Sum)  
Requested supplement-\$16,000  
Total-\$36,400

Design:

Original budget-\$23,400 (Lump Sum)  
Requested supplement-\$3,500  
Total-\$26,900





Survey services:

Original budget-\$12,100 (Allowance)

Requested supplement-\$8,800

Total-\$20,900

The total requested supplemental fee is 28,300.

At this time we do not envision scope and fee changes for bidding services, construction administration and construction observation services but some of those services depend on duration of construction and contractor performance. We will notify the Albany Water Board as construction moves forward if we believe additional services and fees would be required.

Please feel free to contact us if you wish to discuss our services to date and this supplemental request.

Thank you for the opportunity to continue to serve the City and we look forward to future opportunities with the City of Albany.

Sincerely,

BARTON & LOGUIDICE, D.P. C.

Donald H. Fletcher, P. E.  
Senior Vice President

BDG/tms

**Authorization**

Barton & Loguidice, D.P.C. is authorized to provide the services described herein in accordance with the terms described and our Master Services Agreement.

\_\_\_\_\_  
William Simcoe, P.E.-Deputy Commissioner

\_\_\_\_\_  
Date