



# PROPOSED CHANGE ORDER REQUEST

Department of Watershed Management

Contract Name: CIP Program Management Services Date: 8/30/2019  
 Contractor: AECOM Technical Services, Inc.  
 Contract Number: 15-903011 Contract Amendment Number: 3

Contract Amendment Category:  Cost  Schedule  Scope  Deliverables

Original Contract \$ Amount:	Contract Start Date:	Original Contract Time:	Original Contract End Date:
\$19,944,897	9/9/2015	1940	12/31/2020
NTP Start Date:	Original Performance Days:	Original Performance End Date:	
9/9/2015	1461	9/8/2019	
Previous Change Order:	Previous Time Extensions (Days):	Previous Changes to \$ Amount:	
Change Order No. 1:	0	\$6,948,928	
Change Order No. 2:	90	\$0.00	
Change Order No. 3:	0	\$0.00	
Current Contract Amount:	Current Performance Time (Days):	Current Performance End Date:	
\$26,893,825	1551	12/7/2019	

**Description of Proposed Changes: (Also see attached documentation)** Change Order #03 (CO#03) funds: Continuation of CIP PMT services through the completion of the current \$1.345 Billion CIP, completion of Snapfinger Phase 2 construction, and Consent Decree (CD) PASARP Rehab. Extension of current services includes; Task 1: Program Management, Task 2: Project Controls, Task 4: Hydraulic Modeling, Task 6: Master Planning, Task 7: Project Management, Task 8 - Technical Specifications, Standards and Quality Control, Task 9: Risk Management, Task 10: Community Outreach and Public Relations, Task 11: Technical Assistance and Task 12: PMIS Implementation Support. CO#03 also includes two additions to the contracted scope of work, both in Task 6: Master Plan Development. These additional items were directed and approved by DWM leadership in May of 2018 and January of 2019, respectively, and included: 1) Converting the existing static Consent Decree Sewer Hydraulic Model into a limited calibration inflow hydrograph hydraulic model prior for use in the development of the Master Plan until the dynamic Consent Decree model is available, and 2) Performing a Water Main Risk-Based Prioritization to evaluate the criticality of water distributions system asset using a risk-based approach. Task 3: Program Development and Task 5: Master Plan Scope Proposal are complete.

**Justification of Proposed Changes: (Also see attached documentation)** The County has developed and is approximately 60% complete implementing and delivering a \$1.345 Billion CIP. Completion of this CIP requires annual CIP Project delivery at the level of \$230 million per year and up to \$255 million in 2020 to meet commitments made on PASARP rehabilitation works as part of the Consent Decree. PASARP rehab work is projected to continue through 2023, and the Snapfinger Phase 2 project construction schedule is expected to continue through to 2022. The CIP PMT has been critical in achieving recent CIP spend levels at the required rates, as well as developing and implementing funding strategies such as applying for WIFIA and GEFA loans, and prioritizing project needs based on operational needs. New PASARP rehab delivery strategies have included putting in place new unit-price-based rehab contracts and expediting the use of existing Annual Contracts, On-Call Engineering contracts and cooperative agreements to drive completion of the PASARP rehab work in the schedule committed to. Changing CIP PMT at this time is not in the best interests of the County.

Proposed Additional Performance Days:	Proposed Cumulative Performance Days:	Proposed Performance End Date:	Proposed Contract End Date:
1371	2922	9/9/2023	12/31/2024
Proposed Changes to Dollar Amount:	Proposed Cumulative Contract Amount:	Amount Spent To Date:	
\$22,322,194	\$49,216,019	\$24,642,882	

**Describe Any Risk Associated With This Change:** Risk for completion of the current \$1.345 Billion CIP and potential future CIPs will be reduced by continuation of CIP PMT services as the CIP PMT has extensive knowledge of the current CIP and managing the existing projects, including the critical Consent Decree projects. The CIP PMT currently in-place is therefore best placed to expedite these services in a manner that will reduce schedule risk for these projects, and provide the additional services in a cost effective manner.

**Effect of NOT Approving This Change:** Schedule risk would be incurred if this task is not approved as DWM staff numbers are not-sufficient to self-deliver, and recompeting this contract would require more time than is available without a gap in CIP PMT coverage.

**Engineering Manager's Approval:**

Accepted      Signature: \_\_\_\_\_  
 Rejected      Print Name: \_\_\_\_\_  
Date: \_\_\_\_\_

**Watershed Director's Approval:**

Accepted      Signature: Reginald Wells  
 Rejected      Print Name: Reginald Wells  
Date: 9/20/2019

Digitally signed by Reginald Wells  
DN: cn=Reginald Wells, o=DeKalb County, email=reginald.wells@dekalbcountyga.gov, c=US  
Date: 2019.09.20 16:30:49 -0400

**Deputy Chief Operating Officer's Approval:**

Accepted      Signature: [Handwritten Signature]  
 Rejected      Print Name: Ter Rhinehart  
Date: 9/23/19

**Chief Operating Officer's Approval:**

Accepted      Signature: [Handwritten Signature]  
 Rejected      Print Name: Zachary L. Williams  
Date: 9/30/19

Contract Name: Capital Improvement Projects (CIP) Program Management Services  
Contractor: AECOM Technical Services, Inc.  
Contract Number: 978332  
Contract Amendment Number: 3

**Attachment 2**  
**CIP Program Management Services (AECOM) - Change Order #03**  
**Summary of Proposed Budget Changes**  
**September 2019**

Task Description		Initial Contract Budget by Task	Change Order #01			Change Order #03					Description
			Transferred between Tasks in CO#01	New Funds Added in CO#01	Budget Following CO#01	Projected Funds Expended by 9/8/2019	Remaining Budget from Approved Funds	Budget Required 9/9/2019 to 12/31/2023	New Funds from CO#03	Total Budget Following Approved CO#03	
Task 1	Program Development and Management	\$ 2,881,642	\$ 414,900	\$ 101,745	\$ 3,398,287	\$ 3,224,564	\$ 173,723	\$ 2,717,384	\$ 2,543,661	\$ 5,941,948	Extension of Program Management services, including Program Manager and Administrative Assistant.
Task 2	Project Controls	\$ 2,205,490	\$ 462,720	\$ 272,336	\$ 2,940,546	\$ 2,932,541	\$ 8,005	\$ 3,332,747	\$ 3,324,742	\$ 6,265,288	Extension of Program Controls services, including Program Controls Manager, Scheduling Manager and Document Control Manager.
Task 3	Program Development	\$ 450,744	\$ -	\$ -	\$ 450,744	\$ 449,246	\$ 1,498	\$ -	\$ (1,498)	\$ 449,246	Included in Task 7
Task 4	Hydraulic Modeling	\$ 866,324	\$ 125,117	\$ 386,123	\$ 1,377,564	\$ 1,489,752	\$ (112,188)	\$ 1,321,610	\$ 1,433,799	\$ 2,811,363	Extension of ad-hoc support for Water Delivery System Management. Use of Hydraulic Model and staff to identify and help address water system issues, approved on a Task Order basis.
Task 5	Master Plan Scope Proposal	\$ 167,987	\$ -	\$ -	\$ 167,987	\$ 167,987	\$ -	\$ -	\$ -	\$ 167,987	Complete
Task 6	Master Plan Development	\$ -	\$ -	\$ 3,052,000	\$ 3,052,000	\$ 2,346,374	\$ 705,626	\$ 1,206,686	\$ 501,060	\$ 3,553,060	Completion of Master Plan Scope approved in CO#01. Additional funding for Limited Calibration of Sewer Model and Water Main Prioritization.
Task 7	Project Management	\$ 9,996,062	\$ (916,037)	\$ -	\$ 9,080,025	\$ 10,275,832	\$ (1,195,807)	\$ 10,729,601	\$ 11,925,408	\$ 21,005,433	Extension of Project Management services, including Deputy Program Manager.
Task 8	Technical Specifications, Standards and Quality Co	\$ 530,122	\$ -	\$ -	\$ 530,122	\$ 530,007	\$ 115	\$ 378,098	\$ 377,983	\$ 908,105	On-going funding of part-time Project Manager to act as Quality Task Lead through life of contract.
Task 9	Risk Management	\$ 537,002	\$ (86,700)	\$ -	\$ 450,302	\$ 367,585	\$ 82,717	\$ 489,511	\$ 406,794	\$ 857,096	On-going funding of part-time Project Manager to act as Risk Task Lead through life of contract.
Task 10	Community Outreach and Public Relations	\$ 2,309,524	\$ -	\$ 1,379,581	\$ 3,689,105	\$ 2,647,430	\$ 1,041,675	\$ 2,496,581	\$ 1,454,905	\$ 5,144,010	Extension of Public Outreach team.
Task 11	Additional Services - Technical Support	\$ -	\$ -	\$ 1,009,143	\$ 1,009,143	\$ 580,737	\$ 428,406	\$ 415,467	\$ (12,938)	\$ 996,205	Extension of additional technical support as requested by DWM. Approved on a Task Order basis.
Task 12	PMIS Implementation Support	\$ -	\$ -	\$ 748,000	\$ 748,000	\$ 416,878	\$ 331,122	\$ 699,401	\$ 368,279	\$ 1,116,279	Extension of services to support and continue to develop DWM's SharePoint system.
<b>TOTAL</b>		<b>\$ 19,944,897</b>	<b>\$ -</b>	<b>\$ 6,948,928</b>	<b>\$ 26,893,825</b>	<b>\$ 25,428,934</b>	<b>\$ 1,464,891</b>	<b>\$ 23,787,086</b>	<b>\$ 22,322,194</b>	<b>\$ 49,216,019</b>	

**CIP Program Management Services (AECOM) - Change Order #03  
Proposed Budget - September 2019 - August 2023 Build-Up**

**Assumptions:**

Assumed hours per year = 1,920  
Annual cost escalation = 3.00%

Role	Incumbent	Year 4 Rate	Company	9/9/19-9/8/20		9/9/20-9/8/21		9/9/21-9/8/22		9/9/22-9/8/23		Total ETC	
				FTE	Cost	FTE	Cost	FTE	Cost	FTE	Cost		
<b>Task 1 - Program Development and Management</b>													
PMCIIP Program Manager	Lee Judd	\$ 287	AECOM	90%	\$ 510,814	90%	\$ 526,139	90%	\$ 541,923	60%	\$ 344,955	\$ 1,923,830	
PMCIIP & Surety Principal	Tina Houston	\$ 308	AECOM	5%	\$ 30,455	5%	\$ 31,369	5%	\$ 32,310	5%	\$ 33,279	\$ 127,413	
Account Administrator	Stephanie Gardner	\$ 96	AECOM	8%	\$ 15,188	8%	\$ 15,644	8%	\$ 16,113	8%	\$ 16,596	\$ 63,541	
Administrative II	Kinya Hogan	\$ 68	Graham	100%	\$ 134,477	100%	\$ 138,511	100%	\$ 142,666	100%	\$ 146,946	\$ 562,601	
<b>Task 2 - Project Controls</b>													
Scheduler/Estimator	Dean Miller	\$ 184	AECOM	100%	\$ 363,878	100%	\$ 374,795	100%	\$ 386,039	75%	\$ 298,215	\$ 1,422,927	
Project Manager (Scheduling)	Kirkwood Russell	\$ 149	Graham	100%	\$ 294,662	100%	\$ 303,502	100%	\$ 312,607	100%	\$ 321,986	\$ 1,232,758	
Technician I	Avis Blanton	\$ 77	AECOM	100%	\$ 152,275	100%	\$ 156,843	100%	\$ 161,549	100%	\$ 166,395	\$ 637,063	
<b>Task 3 - Program Development - COMPLETE</b>													
<b>Task 4 - Hydraulic Modeling</b>													
Supervising Modeler	Brad Curran	\$ 149	AECOM	See detail on separate sheet									\$ 367,124
Engineer I	Andy Loo	\$ 94	AECOM										\$ 291,005
Engineer II - GIS	Brannon Schnelle	\$ 102	CERM										\$ 623,482
<b>Task 5 - Master Plan Scope Proposal - COMPLETE</b>													
<b>Task 6 - Master Plan Development</b>													
Additional Work Already Committed To:													
- Remainder of CO#01 Scope			AECOM										\$ 705,626
- Limited Calibration			AECOM										\$ 300,000
- Water Main Prioritization			AECOM										\$ 161,060
<b>Task 7 - Project Management</b>													
Engineer III	Greg Harrison	\$ 151	AECOM	100%	\$ 298,618	100%	\$ 307,576	100%	\$ 316,803	100%	\$ 326,308	\$ 1,249,305	
Senior Project Manager	Catherine Riley	\$ 182	AECOM	100%	\$ 359,923	100%	\$ 370,721	100%	\$ 381,843	0%	\$ -	\$ 1,112,487	
Senior Project Manager	Gregory Gutzwiller	\$ 182	TCF	100%	\$ 359,923	100%	\$ 370,721	100%	\$ 381,843	50%	\$ 196,649	\$ 1,309,136	
Senior Project Manager	Edward Biskis	\$ 182	Graham	100%	\$ 359,923	100%	\$ 370,721	100%	\$ 381,843	80%	\$ 314,638	\$ 1,427,125	
Senior Project Manager	Barry Booth	\$ 182	CERM	100%	\$ 359,923	100%	\$ 370,721	100%	\$ 381,843	100%	\$ 393,298	\$ 1,505,784	
Senior Project Manager	Paula Days (PT)	\$ 182	AECOM	35%	\$ 125,973	35%	\$ 129,752	35%	\$ 133,645	35%	\$ 137,654	\$ 527,025	
Project Manager	Moubin Al-Malla (PT)	\$ 149	AECOM	70%	\$ 206,264	70%	\$ 212,452	75%	\$ 234,456	75%	\$ 241,489	\$ 894,660	
Project Manager	Habibah Bell	\$ 149	EC	100%	\$ 294,662	100%	\$ 303,502	100%	\$ 312,607	100%	\$ 321,986	\$ 1,232,758	
Engineer I	Israel Arokoyu	\$ 82	CERM	100%	\$ 162,163	100%	\$ 167,028	100%	\$ 172,039	100%	\$ 177,200	\$ 678,430	
Senior Technical Resource (Senior PM rate)	Hennie Van Staden	\$ 182	AECOM	50%	\$ 179,962	50%	\$ 185,360	50%	\$ 190,921	50%	\$ 196,649	\$ 752,892	
<b>Task 8 - Technical Specifications, Standards and Quality Control</b>													
Project Manager (PT)	Moubin Al-Malla (PT)	\$ 149	AECOM	30%	\$ 88,399	30%	\$ 91,051	25%	\$ 78,152	25%	\$ 80,496	\$ 338,098	
<b>Task 9 - Risk Management</b>													
Senior Project Manager (PT)	Paula Days (PT)	\$ 182	AECOM	35%	\$ 125,973	35%	\$ 129,752	25%	\$ 95,461	25%	\$ 98,324	\$ 449,511	
<b>Task 10 - Community outreach and Public Relations</b>													
Manager Comm/Pub Outreach	John James	\$ 103	CERM	100%	\$ 203,693	100%	\$ 209,804	100%	\$ 216,098	100%	\$ 222,581	\$ 852,175	
Comm/Public Outreach Specialist III	Lanii Dennis	\$ 92	TCF	100%	\$ 181,939	100%	\$ 187,397	0%	\$ -	0%	\$ -	\$ 369,337	
Comm/Public Outreach Specialist II	Ebony Hillsman	\$ 84	TCF	100%	\$ 166,118	100%	\$ 171,102	50%	\$ 88,118	50%	\$ 90,761	\$ 516,099	
Comm/Public Outreach Specialist I	Cassie Alston	\$ 79	Reeves	100%	\$ 156,230	100%	\$ 160,917	100%	\$ 165,745	100%	\$ 170,717	\$ 653,610	
Comm/Public Outreach Specialist I	Philippa Brown	\$ 79	PACS	10%	\$ 15,623	10%	\$ 16,092	10%	\$ 16,574	10%	\$ 17,072	\$ 65,361	
<b>Task 11 - Technical Assistance</b>													
Engineer II (Rehab Recommendations)	JonesZ	\$ 116	Graham	100%	\$ 229,402	20%	\$ 47,257	20%	\$ 48,674	20%	\$ 50,135	\$ 375,467	
<b>Task 12 - PMIS Implementation Support</b>													
Supervising Engineer (Task Lead)	MJ Hartney	\$ 246	AECOM	20%	\$ 97,298	20%	\$ 100,217	20%	\$ 103,223	20%	\$ 106,320	\$ 407,058	
Technician III	Cindi Costello	\$ 122	AECOM	25%	\$ 60,317	25%	\$ 62,126	25%	\$ 63,990	25%	\$ 65,910	\$ 252,343	
ODCs			ODCs		\$ 100,000		\$ 100,000		\$ 100,000		\$ 100,000	\$ 400,000	

Contracted to date =	\$ 23,787,086
Projected Unspent at 9/8/2019	\$ (1,464,891)
Projected needs for 9/8/2019-12/31/2023	\$ 23,787,086
<b>CO#03</b>	<b>\$ 22,322,194</b>
<b>TOTAL AFTER CO#03</b>	<b>\$ 49,216,019</b>

**CIP Program Management Services (AECOM) - Change Order #03  
Proposed Budget - CIP PMT Services - Task 4 - Hydraulic Modeling Build-Up**

**Assumptions:**

Assumed hours per year = 1,920  
Annual cost escalation = 3.00%

Role	Incumbent	Year 4 Rate	9/9/19-9/8/20		9/9/20-9/8/21		9/9/21-9/8/22		9/9/22-9/8/23		Total ETC
			FTE	Cost	FTE	Cost	FTE	Cost	FTE	Cost	
<b>Task 4 - Hydraulic Modeling Work</b>											
<b>Continuing Hydraulic Analyses</b>											
- Input known changes into GIS - address backlog			<b>Hrs</b>		<b>Hrs</b>		<b>Hrs</b>		<b>Hrs</b>		
- GIS Support	Brannon Schnelle	\$ 102	1,920	\$ 201,715	1,920	\$ 207,767	1,920	\$ 214,000	\$ -	\$ -	\$ 623,482
- Update Hydraulic Model for GIS Changes				\$ -		\$ -		\$ -		\$ -	\$ -
- Task Lead	Brad Curran	\$ 149		\$ -	120	\$ 18,969		\$ -		\$ -	\$ 18,969
- Engineer I	Andy Loo	\$ 94		\$ -	300	\$ 29,917		\$ -		\$ -	\$ 29,917
- Continue Resolving known/suspected closed valves/broken valves				\$ -		\$ -		\$ -		\$ -	\$ -
- Task Lead	Brad Curran	\$ 149	272	\$ 41,744	100	\$ 15,807	160	\$ 26,051	150	\$ 25,155	\$ 108,757
- Engineer I	Andy Loo	\$ 94	300	\$ 29,046	100	\$ 9,972	180	\$ 18,489	180	\$ 19,044	\$ 76,551
- Continued Investigations in Areas with Poor Calibration				\$ -		\$ -		\$ -		\$ -	\$ -
- Task Lead	Brad Curran	\$ 149	300	\$ 46,041	152	\$ 24,027		\$ -		\$ -	\$ 70,068
- Engineer I	Andy Loo	\$ 94	240	\$ 23,237	200	\$ 19,945		\$ -		\$ -	\$ 43,182
- Prioritization of Valve Program based on Calibration				\$ -		\$ -		\$ -		\$ -	\$ -
- Task Lead	Brad Curran	\$ 149		\$ -	200	\$ 31,615		\$ -		\$ -	\$ 31,615
- Engineer I	Andy Loo	\$ 94		\$ -	172	\$ 17,153		\$ -		\$ -	\$ 17,153
- Pressure Zone Boundary Investigations				\$ -		\$ -		\$ -		\$ -	\$ -
- Task Lead	Brad Curran	\$ 149		\$ -	150	\$ 23,711	150	\$ 24,422	120	\$ 20,124	\$ 68,258
- Engineer I	Andy Loo	\$ 94		\$ -	200	\$ 19,945	200	\$ 20,543	200	\$ 21,160	\$ 61,648
- Water Quality Study				\$ -		\$ -		\$ -		\$ -	\$ -
- Task Lead	Brad Curran	\$ 149		\$ -		\$ -	200	\$ 32,563	220	\$ 36,894	\$ 69,457
- Engineer I	Andy Loo	\$ 94		\$ -		\$ -	300	\$ 30,815	300	\$ 31,739	\$ 62,554

# \$1.345 Billion CIP Projects Continuing 2019 through 2023

Total Spend by Year						Total
						2019-2023
	2019	2020	2021	2022	2023	
<b>Total Spend by Year</b>	\$ 241,213,054	\$ 273,334,114	\$ 235,575,451	\$ 232,374,929	\$ 230,792,559	\$ 1,213,290,107
<b>Total Spend from CIP \$1.345 Billion by Year</b>	\$ 241,213,054	\$ 273,334,114	\$ 214,829,451	\$ 188,789,929	\$ 178,237,559	\$ 1,096,404,107

		Spend by Year					Total
							2019-2023
CIP/WBS NUMBER	Project Name	2019	2020	2021	2022	2023	
6	Decatur Elevated Tank Demolition	\$ 180,000	\$ -	\$ -	\$ -	\$ -	\$ 180,000
6	Scott Candler WTP Steel Tanks No. 2, 1, & 3	\$ 5,300,000	\$ 1,180,000	\$ -	\$ -	\$ -	\$ 6,480,000
6	Whites Mills Ground Storage Tank 2	\$ 295,000	\$ 295,000	\$ -	\$ -	\$ -	\$ 590,000
6	Wesley Chapel Ground Storage Tank 1	\$ 559,419			\$ -	\$ -	\$ 559,419
6	Columbia Concrete and Steel Ground Tanks		\$ 265,230	\$ 265,230	\$ -	\$ -	\$ 530,460
6	Whites Mill Ground Storage Tank 1	\$ -	\$ 265,500	\$ 265,500	\$ -	\$ -	\$ 531,000
6	Dunwoody Tanks	\$ -	\$ 265,500	\$ 265,500	\$ -	\$ -	\$ 531,000
14	Water Meter Upgrade and Replacement Program	\$ 4,000,000	\$ 6,000,000	\$ 6,000,000	\$ 6,000,000	\$ 6,000,000	\$ 28,000,000
16	Water Replacement, Service Renewals and Cul de Sac Contracts	\$ 1,000,000	\$ 2,500,000	\$ 2,500,000	\$ 2,500,000	\$ 2,000,000	\$ 10,500,000
22	Program Managers, Hydraulic Modeling & Master Planning - Non-WIFIA	\$ 3,570,132	\$ 2,556,997	\$ 4,958,993	\$ 3,648,636	\$ 3,532,737	\$ 18,267,495
22	Program Managers, Hydraulic Modeling & Master Planning - WIFIA	\$ 9,325,468	\$ 6,743,003	\$ 2,541,007	\$ 2,351,364	\$ 1,967,263	\$ 22,928,105
22	CIP Staffing, Rent and Overheads	\$ 7,000,000	\$ 7,000,000	\$ 7,000,000	\$ 7,000,000	\$ 7,000,000	\$ 35,000,000
22	Design Services for Contracts where not already included	\$ 385,000	\$ 399,000	\$ 1,844,521	\$ 2,172,821	\$ 877,821	\$ 5,679,163
22	CM Services for Contracts where not already included	\$ 3,227,171	\$ 4,578,667	\$ 4,736,000	\$ 4,803,224	\$ 4,523,224	\$ 21,868,287
22	Easement Research and Easement Purchase not in Budget	\$ 2,000,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 8,000,000
24	Scott Blvd Water Replacement Phase I			\$ 2,500,000			\$ 2,500,000
24	Scott Blvd Water Replacement Phase II			\$ 7,500,000	\$ 7,500,000		\$ 15,000,000
24	Scott Blvd. Phase III - 30 in Main Replacement	\$ -	\$ 5,000,000	\$ 6,000,000	\$ -	\$ -	\$ 11,000,000
25	SR Candler Road Waterline Replacement - Phase II				\$ 8,000,000		\$ 8,000,000
26	Glendale Water - 36 in Main Replacement (both)	\$ 5,500,000		\$ 9,000,000	\$ 9,000,000	\$ -	\$ 23,500,000
29	Scott Candler Clear Well Redundancy					\$ 6,000,000	\$ 6,000,000
29	Scott Candler Ozone Generator Mods		\$ 4,200,000	\$ 4,200,000	\$ -	\$ -	\$ 8,400,000
29	Scott Candler - Centrifuge, Electrical Building & Flow Meters		\$ 1,500,000	\$ 1,000,000	\$ -	\$ -	\$ 2,500,000
29	Scott Candler Header and Transfer Pump	\$ 3,500,000	\$ 700,000	\$ -	\$ -	\$ -	\$ 4,200,000
34	Manhole Raising Contract (1 Year Base - 2 Renewals)	\$ 660,990	\$ 641,549	\$ 641,549	\$ 641,549	\$ 641,549	\$ 3,227,184
36	Relocation Roadway Projects - Undefined 2015	\$ 5,000,000	\$ 3,500,000	\$ 5,000,000	\$ 9,750,000	\$ 9,750,000	\$ 33,000,000
37	Snapfinger Woods Drive Sanitary Sewer Improvements			\$ 4,650,295	\$ -	\$ -	\$ 4,650,295
42	OSARP CCTV Assessments General Areas	\$ 6,600,000	\$ 9,700,000	\$ 9,700,000	\$ 9,700,000	\$ 9,700,000	\$ 45,400,000
42	Major Gravity Sewer Line Capacity Restoration	\$ 3,800,000	\$ 3,800,000	\$ 3,800,000	\$ 1,900,000	\$ 1,900,000	\$ 15,200,000
44	Emergency Rehab Contracts #2	\$ 3,000,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 11,000,000
44	CD PASARP Rehab Packages - Non WIFIA	\$ 73,742,138	\$ 66,808,520	\$ 16,663,779	\$ 4,165,945	\$ -	\$ 161,380,382
44	CD PASARP Rehab Packages - WIFIA Compliant	\$ 3,773,473	\$ 41,291,580	\$ 47,290,454	\$ 32,622,849	\$ 16,311,424	\$ 141,289,780
47	2018 Consent Decree Lift Stations	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ 500,000
49	City of Atlanta WW Svcs Clean Water Atlanta CIP	\$ 12,426,000	\$ 12,717,000	\$ 12,717,000	\$ 20,000,000	\$ 20,000,000	\$ 77,860,000

		Total Spend by Year					Total
		2019	2020	2021	2022	2023	2019-2023
<b>Total Spend by Year</b>		\$ 241,213,054	\$ 273,334,114	\$ 235,575,451	\$ 232,374,929	\$ 230,792,559	\$ 1,213,290,107
<b>Total Spend from CIP \$1.345 Billion by Year</b>		\$ 241,213,054	\$ 273,334,114	\$ 214,829,451	\$ 188,789,929	\$ 178,237,559	\$ 1,096,404,107

		Spend by Year					Total
CIP/WBS NUMBER	Project Name	2019	2020	2021	2022	2023	2019-2023
52	Snapfinger WWTP Expansion Construction PH 2	\$ 50,000,000	\$ 39,000,000	\$ 8,196,389		\$ -	\$ 97,196,389
52	Snapfinger WWTP Expansion Construction PH 2 (change orders)	\$ -		\$ 10,000,000	\$ 10,000,000		\$ 20,000,000
52	Snapfinger WWTP Expansion PH3 Design (\$50M*1.15=\$57.5)					\$ 15,000,000	\$ 15,000,000
54	Pole Bridge Creek AWTP - Dewatering		\$ 2,100,000	\$ 2,100,000	\$ -	\$ -	\$ 4,200,000
59	Gwinnett County Redirect (\$50MM *1.15 total, \$25MM prior to 2023)				\$ 7,000,000	\$ 18,000,000	\$ 25,000,000
59	Norris Reserve	\$ 172,974	\$ 3,500,000	\$ -	\$ -	\$ -	\$ 3,672,974
74	Fire Hydrant Repair Replacement Annual Contracts	\$ 993,235	\$ 993,235	\$ 993,235	\$ 993,235	\$ 993,235	\$ 4,966,175
82	Annual AC Replacement Contract	\$ 24,000,000	\$ 27,000,000	\$ 27,000,000	\$ 27,000,000	\$ 27,000,000	\$ 132,000,000
82	Annual Large Diameter AC Replacement Contract		\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 8,000,000
82	Avondale Water Main - 30 in Replacement				\$ 6,540,306	\$ 6,540,306	\$ 13,080,611
82	Rockbridge Road Asbestos Cement Water Main Replacement	\$ 3,535,387	\$ -	\$ -	\$ -	\$ -	\$ 3,535,387
82	Miriam Lane	\$ -	\$ -	\$ -	\$ -	\$ 5,000,000	\$ 5,000,000
82	Donaldson Drive	\$ -	\$ -			\$ 10,000,000	\$ 10,000,000
82	Emory Water Pressure Improvement Project	\$ 7,166,667	\$ 13,333,333				\$ 20,500,000