

City of Fayetteville Staff Review Form

2018-0054

Legistar File ID

3/6/2018

City Council Meeting Date - Agenda Item Only
N/A for Non-Agenda Item

Tim Nyander

2/15/2018

Wastewater Treatment Plant /
Utilities Department

Submitted By

Submitted Date

Division / Department

Action Recommendation:

Staff recommends a resolution to approve Amendment No. 4 to the contract with Environmental Consulting Operations, Inc. in the amount of \$61,872.00 for wetlands mitigation site monitoring and management through 2018.

Budget Impact:

5400.730.5120-5315.00

Water and Sewer

Account Number

Fund

N/A

N/A

Project Number

Project Title

Budgeted Item? Yes

Current Budget \$ 61,872.00

Funds Obligated \$ -

Current Balance **\$ 61,872.00**

Does item have a cost? Yes

Item Cost \$ 61,872.00

Budget Adjustment Attached? No

Budget Adjustment \$ -

Remaining Budget **\$ -**

V20140710

Previous Ordinance or Resolution # 64-17

Original Contract Number: 2320

Approval Date: _____

Comments: Ordinance 5687



MEETING OF MARCH 6, 2018

TO: Mayor and City Council
THRU: Don Marr, Chief of Staff
FROM: Tim Nyander, Utilities Director
DATE: February 15, 2018
SUBJECT: **Environmental Consulting Operations, Inc. Amendment No. 4**

RECOMMENDATION:

Staff recommends a resolution to approve Amendment No. 4 to the contract with Environmental Consulting Operations, Inc. in the amount of \$61,872.00 for wetlands mitigation site monitoring and management through 2018.

BACKGROUND:

Ordinance 5687, which was adopted on May 6, 2014, waived the requirement of formal competitive bidding and authorized a contract with Environmental Consulting Operations, Inc. for wetlands mitigation site monitoring and management for 2014. Section 3.2 of the contract provides that the contract may be renewed for additional one year terms upon mutual agreement of the City and Environmental Consulting Operations, Inc.

ECO, Inc. developed the wetlands and storm water protection best management plans and conducted excellent construction inspection for the WSIP, and was tasked to ensure full compliance with the related regulations and permits. ECO, Inc. also designed the wetlands mitigation site that was required by the Corps of Engineers, which has a mandated seven-year monitoring and reporting period. Funding comes from the Wastewater Treatment Operations Program.

DISCUSSION:

The contract covers the following work tasks for 2018:

1. Project Administration and Management
2. Annual Ecological Restoration Monitoring
3. Annual Adaptive Management Strategy
4. Update Credit Tracking Ledger for Surplus Wetland Credits
5. Academic Research Project Guidance

The details of each of these work tasks are outlined within the proposed Amendment No. 4 between the City of Fayetteville and ECO, Inc.

Amendment No. 4 has an increase of \$5,372.00 from 2017, and justification is attached.

BUDGET/STAFF IMPACT:

An appropriation of \$61,872.00 is requested to pay for these services. This will be paid for within the budget of the Wastewater Treatment Operations Program.

Attachments:

Amendment No. 4

2018 Executive Summary

**AMENDMENT NO. 4
TO
AGREEMENT FOR ENVIRONMENTAL CONSULTING SERVICES
BETWEEN CITY OF FAYETTEVILLE, ARKANSAS AND
ENVIRONMENTAL CONSULTING OPERATIONS, INCORPORATED
FOR
WOOLSEY WET PRAIRIE ECOLOGICAL MONITORING AND MANAGEMENT
ENVIRONMENTAL CONSULTING SERVICES**

THIS AMENDMENT NO. 4 to the Agreement For Professional Environmental Consulting Services, dated May 8, 2014 (the “Agreement”), by and between CITY OF FAYETTEVILLE, ARKANSAS (CITY) and ENVIRONMENTAL CONSULTING OPERATIONS, INC. (ECO) for environmental consulting services in connection with monitoring and ecological adaptive management of CITY’s wetland mitigation site (Site) known as Woolsey Wet Prairie is made and entered into for purposes of continuity of Site wetland habitat status in order to maintain surplus wetland credits generated at Site and due to Corps of Engineers (Corps) regulatory requirements to manage and maintain wetland compensatory mitigation in perpetuity to assure Site continues to meet ecological performance standards.

WHEREAS, this **AMENDMENT NO. 4** is a renewal of the May 8, 2014 Agreement that included a provision for automatic renewal of ECO’s annual Scope of Services beyond 2014 for additional 1-year terms upon mutual agreement by both CITY and ECO. Unless specifically stated, all other terms and conditions of the Agreement shall remain in full force and effect. Neither this Amendment nor the Agreement may be modified except in writing signed by an authorized representative of the CITY and ECO. All work to be performed prior to issuance of Amendment has been completed.

NOW THEREFORE, the CITY and ECO agree to amend the Agreement for ECO’s Scope of Services as follows:

1. Part A - Project Administration And Management

- a) General administration and project management activities;
- b) Perform project initiation activities;
- c) Provide environmental regulatory and technical information to CITY, CITY Contractors, Citizens of CITY, and Academia;
- d) Meet with CITY, CITY Contractors, and Academia for information exchange, goal and timeline setting, reviewing management strategies, and action items;
- e) Perform internal project control including budgeting, scheduling, and quality control;
- f) Part A applies to January through December 2018. ECO’s renewal of annual Scope of Services will be reviewed by the City Council and amended upon approval for renewal of Part A services beyond 2018.

2. Part B - Annual Ecological Restoration Monitoring

- a) Conduct qualitative monitoring activities throughout the growing season to maintain cumulative plant species lists, evaluations of seasonal hydrology and associated plant communities, and identification of stands of invasive plant species to be controlled;
- b) Observe and document total plant species richness for each wetland cell and the total mitigation Site in historical comprehensive plant species lists;
- c) Record locations of concentrated stands of non-native and native invasive plant species and locations of rare Arkansas Natural Heritage Commission tracking plant species on wetland cell maps;
- d) Develop 2018 Woolsey Wet Prairie Adaptive Management Strategy & Monitoring Report No. 12 that is consistent with historical monitoring and management activities at Site in a format to be used for Site adaptive management purposes;
- e) Part B applies to January through December 2018. ECO's renewal of annual Scope of Services will be reviewed by the City Council, and amended upon approval for renewal of Part B services beyond 2018.

3. Part C - Annual Adaptive Management Strategy

- a) Continued development and implementation of annual strategy for specific controls of invasive species via selection, coordination, and scheduling of time sensitive hydrology controls, herbicide applications, mowing, hand pulling, and prescribed burning;
- b) Make Site visits throughout the growing season to make observations of hydrology, vegetation, and effectiveness of invasive vegetation control;
- c) Oversee selection, scheduling, and coordination of Site adaptive management activities and provide guidance pertaining to Site Deed-Restrictive Covenant restrictions to CITY and CITY's Contractors associated with management of Site;
- d) Provide restoration ecology advisory technical guidance to CITY and CITY's Contractors associated with management of Site for the purpose of implementation of Site management activities that are compliant with Site permanent protection measures and restrictions specified in the CITY's Section 404 permit;
- e) Document and maintain records of adaptive management activities implemented and the date of use;
- f) Make adjustments, as necessary, to timing and type of vegetation management to be implemented including, but not restricted to, hydrology management, mowing, herbicide applications, prescribed burning, and hand pulling of invasive plant species;

- g) Utilize drone-generated wetland cell aerial photographs showing locations of concentrated stands of invasive and non-native plant species and locations of rare Arkansas Natural Heritage Commission tracking plant species in order to target and prioritize areas for specific management activities;
- h) Develop herbicide application specifications that include specific types of herbicides to apply to specific invasive plant species by City contractors;
- i) Schedule and select type of herbicide, adjuvant, and application rate to be used for specific target non-native and invasive plant species at specific locations and document herbicide effectiveness;
- j) Coordinate, schedule, and observe areas where herbicide applications have been made to evaluate effectiveness for controlling invasive species by City contractors;
- k) Develop burn specifications that clearly identify prescribed Burn Contractor responsibilities as a part of CITY's informal bid process that identify: Site preparation, notifications, and Burn Contractor responsibilities;
- l) Coordinate, schedule, and observe prescribed burn to evaluate Burn Contractor's conformance with state laws, notifications, and specifications;
- m) Part C applies to January through December 2018. ECO's renewal of annual Scope of Services will be reviewed by the City Council, and amended upon approval for renewal of Part C services beyond 2018.

4. Part D - Update Credit Tracking Ledger for Surplus Wetland Credits

- a) Site has generated surplus of wetland credits above those required by CITY's Section 404 permit for wetland compensatory mitigation. CITY has received Corps approval to use wetland credits to mitigate for wetland impacts caused by the CITY's infrastructure improvement projects within Illinois River watershed, HUC 11110103;
- b) Under the 2014 Scope of Services, ECO developed a wetland credit ledger to include surplus credits and credit debits from CITY's Van Asche Extension Project for submittal to Corps;
- c) Under the 2015 Scope of Services, ECO developed a wetland credit ledger to include surplus credits and credit debits from CITY's Clabber Creek Recreational Trail Project for submittal to Corps;
- d) Under the 2016 Scope of Services, CITY did not utilize any surplus wetland credits for City infrastructure improvement projects requiring wetland compensatory mitigation;
- e) Under the 2017 Scope of Services, CITY did not utilize any surplus wetland credits for City infrastructure improvement projects requiring wetland compensatory mitigation;

- f) It is unknown at the current time, whether or not Part D services will be necessary for January through December 2018, and will be a function of whether or not surplus credit transactions occur. Should 2018 wetland credit transactions occur, ECO shall update wetland credit ledger accordingly for submittal to Corps at the end of 2018;
- g) ECO’s renewal of annual Scope of Services will be reviewed by the City Council, and amended upon approval for renewal of Part D services beyond 2018.

5. Part E - Academic Research Project Review and Guidance

- a) During 2017, there was an increased interest in the Site for academic research projects from various departments of the University of Arkansas ranging from herpetology to soil microbiology. While research projects at the site are exciting and encouraged, the need exists for guidance and oversight to ensure that all parties involved are made aware of the various requirements of the City of Fayetteville’s Section 404 permit and Deed Restricted Covenant for the Site. Failure to manage research project activities at the Site has the potential to result in the City not being in compliance with the terms and conditions of the City’s Section 404 permit and the Deed Restricted Covenant for the Site.
- b) ECO, Inc. is in the process of developing a research request form intended for use by proposed research projects that will provide project-specific relative information to ECO, Inc., CH2MHill, and the City of Fayetteville for review and approval, while also educating the applicant about the Site Section 404 permit requirements.
- c) Part E applies to January through December 2018. ECO’s renewal of annual Scope of Services will be reviewed by the City Council, and amended upon approval for renewal of Part E services beyond 2018.

6. Compensation

For the amended Scope of Services described herein, CITY agrees to pay ECO the sum specified below on Cost Detail Table. The total payment shall be a lump sum “not to exceed” amount of **SIXTY ONE THOUSAND EIGHT HUNDRED SEVENTY TWO U.S. DOLLARS** (\$61,872.00).

Amendment No. 4 - 2018 Cost Detail

Amended ECO Scope of Services	Fee Estimate
Part A - 2018 Project Administration And Management	\$2,508
Part B - 2018 Annual Ecological Restoration Monitoring	\$21,850
Part C - 2018 Annual Adaptive Management Strategy	\$32,510
Part D - 2018 Update Surplus Wetland Credit Tracking Ledger	\$ 0
Part E – 2018 Academic Research Project Guidance	\$5,004
TOTAL	\$61,872.00

The CITY and ECO intending to be legally bound, indicate their approval of this AMENDMENT No. 4 by their signatures below.

**ENVIRONMENTAL CONSULTING
OPERATIONS, INC.**

CITY OF FAYETTEVILLE

By: *Bruce Shackleford*
Bruce Shackleford, President

By: _____
Lioneld Jordan, Mayor

Date: January 15, 2018

Date: _____

ATTEST:

By: _____
Sondra E. Smith, City Clerk/Treasurer

Date: _____



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
5/26/2017

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER The Thomas Insurance Agency of Benton 114 East Conway Street P. O. Box 49 Benton AR 72018-0049		CONTACT NAME: Jennifer Wood PHONE (A/C No. Ext): (501) 778-9162 E-MAIL ADDRESS: jennifer.wood@nfp.com FAX (A/C No.): (501) 778-0533															
INSURED Environmental Consulting Operations, Inc. 17724 Interstate 30 Suite 5A Benton AR 72019		<table border="1"> <thead> <tr> <th>INSURER(S) AFFORDING COVERAGE</th> <th>NAIC #</th> </tr> </thead> <tbody> <tr> <td>INSURER A West American Ins Co</td> <td>44393</td> </tr> <tr> <td>INSURER B Cameron Insurance Company</td> <td>15725</td> </tr> <tr> <td>INSURER C Ohio Casualty Ins Co</td> <td>24074</td> </tr> <tr> <td>INSURER D Westchester Surplus Lines Ins</td> <td>10172</td> </tr> <tr> <td>INSURER E:</td> <td></td> </tr> <tr> <td>INSURER F:</td> <td></td> </tr> </tbody> </table>		INSURER(S) AFFORDING COVERAGE	NAIC #	INSURER A West American Ins Co	44393	INSURER B Cameron Insurance Company	15725	INSURER C Ohio Casualty Ins Co	24074	INSURER D Westchester Surplus Lines Ins	10172	INSURER E:		INSURER F:	
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INSURER E:																	
INSURER F:																	

COVERAGES CERTIFICATE NUMBER: CL1752606203 REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:			BZ57085594	5/10/2017	5/10/2018	EACH OCCURRENCE \$ 2,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 2,000,000 MED EXP (Any one person) \$ 15,000 PERSONAL & ADV INJURY \$ 2,000,000 GENERAL AGGREGATE \$ 4,000,000 PRODUCTS - COMP/OP AGG \$ 4,000,000 Employment Practices Liab \$ 100,000
B	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS			CA8001504	3/1/2017	3/1/2018	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ Medical payments \$ 5,000
C	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ 10,000			US057085594	5/10/2017	5/10/2018	EACH OCCURRENCE \$ 1,000,000 AGGREGATE \$ 1,000,000
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below		N/A	XW57085594	5/10/2017	5/10/2018	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
D	Professional Liability			G24280469006	5/10/2017	5/10/2018	Contractors Pollution Liab Agg 2,000,000 Contractors Pollution Liab Occ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER christinabrinkley@att.net Proof of Insurance	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE James Thomas/JWOOD
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INS025 (201401)

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End of January 15, 2018 Amendment No. 4 for Environmental Consulting Services

2018 Executive Summary:
Woolsey Wet Prairie Annual Ecological Monitoring and Adaptive Management

Overview & Background

The Woolsey Wet Prairie Sanctuary was established by the City of Fayetteville as part of wetland compensatory mitigation requirements under Section 404 Permit 14207 issued by the U.S. Army Corps of Engineers Little Rock District. The 43.8-acre mitigation site was constructed to offset the permanent alteration of 7.92 acres of wetlands from construction of the City's Wastewater Systems Improvement Project (WSIP). The Section 404 Permit required 73.57 wetland credits to be generated at the mitigation site to offset wetland losses from the WSIP. To date, a total of 94.47 mitigation credits have been generated, producing a surplus of 20.90 credits.

On September 30, 2013, after numerous conferrals with ECO, Inc., the City of Fayetteville received a special one-of-a-kind approval from the Corps to use the 20.90 surplus wetland credits for city infrastructure projects that require wetland compensatory mitigation within the Illinois River Watershed. To date, surplus wetland credits have been used for the City's Van Asche Drive Extension Project and the Clabber Creek Recreational Trail Project, saving the City thousands of dollars.

Environmental Consulting Operations, Inc. (ECO, Inc.) developed the wetlands and stormwater permitting Best Management Practices Plans and conducted excellent construction inspection for the WSIP and was tasked to ensure full compliance with related regulations and permits. Under their supervision, contractors working for the city completed over \$160 million in work without a single permit violation. ECO, Inc. designed the ecological features of the wetland mitigation site that was required by the Corps of Engineers, which had a mandated monitoring and reporting period, and maintains the required wetland credit ledger to track the use of surplus wetland credits by the City of Fayetteville.

Under ECO, Inc.'s adaptive management strategy, the mitigation site has a current plant species list totaling 479 species, a ten-fold increase beyond the 47 plant species observed in 2004. Eleven species at the site are tracked by the Arkansas Natural Heritage Commission as species of state conservation concern. Nonetheless, persistent invasive species are present at the site, requiring continued monitoring and adaptive management activities

ECO, Inc. Scope of Work

ECO, Inc.'s May 8, 2014 Agreement For Professional Environmental Consulting Services covered the following work tasks for 2014, and as amended in 2015, 2016, and 2017:

- (1) Annual Ecological Restoration of Existing Mitigation Site;
- (2) Annual Adaptive Management Strategy for Existing Mitigation Site;
- (3) Development of Credit Tracking Ledger for Surplus Wetland Credits;
- (4) Provide environmental regulatory and technical information to the City of Fayetteville and City Contractors.

The details for each of these work tasks are outlined within the proposed 2018 Contract Amendment No. 4 between the City of Fayetteville and ECO, Inc. in Parts A, B, C, and D. For 2018, Part E has been added for providing Academic Research Project Guidance.

Justification for 2018 Woolsey Wet Prairie Contract Price Increase

During 2017, there was an increased interest in conducting academic research projects at Woolsey Wet Prairie from various departments of the University of Arkansas ranging from herpetology surveys to soil microbiology studies. While research projects at the site are exciting and encouraged, the need exists for guidance and oversight to ensure that all parties involved are made aware of the various requirements of the City of Fayetteville's Section 404 permit and Deed Restricted Covenants for the wetland compensatory mitigation site. Some seeking to conduct academic endeavors have commenced with their project work without formally notifying ECO, Inc., CH2MHill, or the City of Fayetteville. To ECO, Inc.'s knowledge, there at least five five research projects at various stages of completion at the property. Some involved in academic ventures have expressed to ECO, Inc. that they thought the wetland mitigation site was "just another City Park" where they could do their research with no restrictions.

Failure to manage research project activities at the mitigation site has the potential to:

- a) **Result in the City not being in compliance with the terms and conditions of the City's Section 404 permit and/or the Deed Restricted Covenant for the property,**
- b) **Result in the possible reduction in surplus wetland credits for City infrastructure improvement projects,**
- c) **Result in damage to isolated stands of rare and ecologically sensitive plant species, and**
- d) **Result in one research project taking place in such a manner to interfere with another research project.**

Therefore, a need has arisen to provide guidance to academia and to require all academic research projects to provide a formal notification and a proposal describing the types of activities and scheduling for proposed projects.

ECO, Inc.'s scope under this part will be to:

- a) **Developing a research request form intended for use by proposed research projects that will provide project-specific relative information to ECO, Inc., CH2MHill, and the City of Fayetteville for review and approval.**
- b) **Develop a brief guidance document to educate those who plan to conduct research projects at the site about prohibited activities specified within the City's Section 404 permit and deed-restrictive covenants for the property.**
- c) **Review proposed research projects and make recommendations to City, CH2MHill, and applicant.**

A cost detail for ECO, Inc.'s 2018 scope of work is shown below.

Amendment No. 4 - 2018 Cost Detail	
Amended ECO Scope of Services	Fee Estimate
Part A - 2018 Project Administration And Management	\$2,508
Part B - 2018 Annual Ecological Restoration Monitoring	\$21,850
Part C - 2018 Annual Adaptive Management Strategy	\$32,510
Part D - 2018 Update Surplus Wetland Credit Tracking Ledger	\$ 0
Part E – 2018 Academic Research Project Guidance	\$5,004
TOTAL	\$61,872.00

The total cost of \$61,872.00 for the 2018 scope of work represents a \$5,372.00, or 9.5% increase over the \$56,500.00 amount that was approved by the City of Fayetteville for ECO, Inc.'s 2017 scope of work. The addition of Part E accounts for the majority (9.3%) of the 9.5% cost increase, while ECO, Inc.'s annual hourly fee increase accounts for roughly 0.2% of the cost increase.

Considering that ECO, Inc.'s 2017 work was completed at a cost that was \$1,461.08 under the 2017 budget, the actual 2018 increase is equivalent to \$3,910.92, or an actual realized increase of 6.9% above the 2017 amount approved by the City.

2017 Contract Amend. No. 3 Approved Amount	2017 Amount Billed	2017 Amount Under Budget	2018 Cost
\$56,500	\$55,038.92	\$1,461.08	\$61,872 (\$3,910.92 above 2017 amount approved.

Scopes of work and associated costs for Parts A through D will not change significantly from 2017 to 2018.

ECO, Inc. will continue to conduct annual monitoring activities to identify problem areas where specific management controls are warranted.

ECO, Inc. will continue to coordinate adaptive management practices to:

- **Develop plant group-specific herbicide application guidance and recommendations for CH2MHill,**
- **Review records of herbicide applications made by CH2MHill,**
- **Coordinate with CH2MHill, to maintain an aggressive herbicide program for controlling woody vegetation in an effort to "prevent" excessive growth of trees that necessitates timber mukching,**
- **Develop prescribed burn specifications for informal bid process of selecting burn contractor,**
- **Coordinate/scheduling/oversight of prescribed burn.**
- **Process/coordinate/update surplus wetland credit ledger should City infrastructure improvement projects arise that require wetland mitigation credits.**

ECO, Inc. possesses the very specialized technical and regulatory skills and site-specific knowledge to complete these tasks for the purpose of meeting Corps of Engineers mandated mitigation performance standards and to maintain the existing surplus wetland credits for use in future city infrastructure improvements that require compensatory wetland mitigation.