

# AGENDA

## Denver Board of Water Commissioners

Denver Water Administration Building  
1600 West 12<sup>th</sup> Avenue  
Denver, CO  
Board Room, Third Floor

**Wednesday, June 22, 2016 9:00 a.m.**

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### I. INTRODUCTORY BUSINESS

#### A. Call to Order and Determination of Quorum

#### B. Public Comment and Communications

At this point in the agenda, the Board may allow members of the public to address the Board on any item of interest within the jurisdiction of the Board, and not on the agenda for action. Speakers wishing to address a specific Action Item will be invited to address the Board when the item is being considered. Three minutes are allowed for each person unless the President determines otherwise.

1. Distributor Communications
2. Citizen Advisory Committee Communications

#### C. Ceremonies, Awards and Introductions

### II. ACTION ITEMS

#### A. Consent Items

Items listed below are considered routine and may be enacted by one motion and vote. If any Board member desires discussion beyond explanatory questions, or corrections to the Minutes, the President may order that item to be considered in a separate motion and vote.

1. Network and Cabling Services #16666A
2. Participation in the Rocky Mountain Fen Research Project (RMFRP) #16768A
3. Eurofins Eaton Analytical #16394A
4. Denovo Ventures LLC – Second Contract Amendment # 15743A
5. Tabulation of Bids for Kendrick Reservoir and Pump Station Landscape and Irrigation Renovations #16645A
6. Tabulation of Proposals for Marston Speece Cone Pump and Cable Replacement #16699A
7. Tabulation of Bids for the Ralston Dam Primary and Auxiliary Spillway Repairs #16409A

8. Tabulation of Bids for the Moffat Treatment Plant Centrifuge Dewatering System # 15547A
9. Amendment No. 3 with AECOM (formerly URS Corporation) for the Ralston Dam Outlet Works and Reservoir Bypass Pipeline Alternatives Study #15777A
10. Change Order No. 3 with ASI Constructors, Inc. For the High Line Canal Diversion Dam Replacement #16420A
11. Annual Renewals
12. First Amendment for PolyDADMAC Polymer #13813A

#### **B. Individual Approval Items**

- |  |               |           |
|--|---------------|-----------|
| <b>1. Radio Tower Lease Agreement #16756A</b>  | Chris Dermody | 3 minutes |
| <b>2. Wireless Communications Consultant Second Amendment #15443A</b>  | Chris Dermody | 3 minutes |
| <b>3. Provide Strategic Consulting Services for Denver Water's Integrated Resource Plan (IRP) #16781A</b>                    | Mike King     | 5 minutes |
| <b>4. Provide Technical and Plan Development Consulting Services for Denver Water's IRP #16783A</b>                          | Mike King     | 5 minutes |
| <b>5. Jim Creek Replacement Project 4<sup>th</sup> Contract Amendment for Johnson Environmental Consulting, Inc. #15505A</b> | Mike King     | 5 minutes |
| <b>6. Personnel Policies – Miscellaneous Recommended Revisions</b>   | Liz Martinez  | 5 minutes |

### **III. POLICY PRESENTATIONS**

- |                                 |                      |            |
|---------------------------------|----------------------|------------|
| <b>A. OCR Update</b>            | Jeremy Ross          | 10 minutes |
| <b>B. IRP Policy Discussion</b> | Mike King/Marc Waage | 50 minutes |

#### **IV. REPORTS**

- A. CEO Report**
- B. CFO Report**
  - 1. Monthly Financial Report
- C. Operations Report**

#### **V. INFORMATION ITEMS**

- A. 2016 Salary Budget**
- B. Update on Contracts for the Strontia Springs Dam Emergency Reservoir Drainage System (ERDS) Rehabilitation #16678A/#16706A**

#### **VI. ADJOURNMENT**

#### **VII. TRUSTEE MATTERS**

#### **VIII. EXECUTIVE SESSION**

The Board may adjourn the regular meeting and reconvene in executive session on topics authorized by C.R.S. Sec. 24-6-402 or D.R.M.C Sec. 2-34.

- A. Confidential Report § 24-6-402(4)**

# DENVER BOARD OF WATER COMMISSIONERS

Meeting Date: June 22, 2016

Board Item: II-A-1

## Network and Telephone Cabling Contract # 16666A

Action by Consent

Action

Information

### Summary:

Denver Water's Networks and Industrial Control Systems Section of the Information Technology Division requires network and telephone cabling support on an as needed basis to install, terminate and test data cabling, single and multi-mode fiber cable, outdoor copper and fiber cable configurations, data communication patch panels, voice blocks and the installation of indoor and outdoor conduit across all of our facilities. Additionally, Denver Water has occasional large cabling projects that generally consist of conduit installations for underground fiber at various facilities that often require directional boring or trenching. A few examples of work performed under the previous contract include boring under 56<sup>th</sup> Avenue to provide connectivity to the Rocky Mountain Arsenal, boring and running conduit to reroute the main network and telephone cables away from the OCR construction zone, boring and installing conduits and fiber for SCADA connectivity for vaults at 56<sup>th</sup> Avenue pump station, and terminating and testing over 3000 fiber connections that replaced copper connections in both the primary and alternate data-centers.

Over that past 3 years, we have found that having an on-call network and cabling contract in place for large cabling projects provides an efficient method to quickly get connectivity to many of our customers and facilities. Additionally, partnering with a network and cabling contractors helps us meet the increasing demands for higher network speeds, more bandwidth and wireless connectivity especially at our more remote facilities. The reason behind increasing the term of the contract from 3 years to 5 years is to help us maintain a consistent level of service throughout the OCR project.

### Budget Information:

The cost for this contract is included in the 2016 IT budget under MPC 4JN0100, TOE 5900 and will be included in the proposed budgets for 2017 through 2021.

2016 Budget	\$	200,000
Amount Requested This Item	\$	750,000
YTD Expenditures	\$	109,840
Dollars To Be Budgeted for Future Years	\$	660,000
Revised Estimate	\$	200,000
Budget Adjustment	\$	0

### Selection of Business Partner:

Denver Water issued a request for proposal (RFP) to the public on the Rocky Mountain E-Purchasing System (BidNet), Denver Water's website, and notified the SBE and MWBE community. Denver Water received nine proposals, five were SBE and two were M/WBE. Team Linx scored highest among the proposers, 16% higher than the highest scoring S/M/WBE proposer, proposing the lowest cost and having the strongest ability to provide a single, consistent cabling technician for daily services as well as strong abilities to implement larger cabling projects. The other proposers' strengths were primarily focused on implementing larger cabling projects. Team Linx, LLP dba Linx was selected based their network and cabling experience, pricing, service level commitments and understanding of work. Team Linx, LLP dba Linx is not an SBE or M/WBE.

Recommendation:

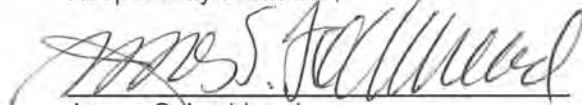
It is recommended that the Board approve contract 16666A with Team Linx, LLP dba Linx for Network and Cabling Services for the contract period July 1, 2016 through June 30, 2021, for a total contract amount not to exceed \$750,000.00.

**Approvals:**



Chris Dermody  
Director of Information and Technology

Respectfully submitted,



James S. Lochhead  
CEO/Manager



Terri Bryant  
Controller

# DENVER BOARD OF WATER COMMISSIONERS

Meeting Date: June 22, 2016

Board Item: II-A-2

## Participation in the Rocky Mountain Fen Research Project (RMFRP) Contract # 16768A

Action by Consent

Action

Information

### Summary:

Denver Water's raw water collection system broadly encompasses upper watershed streams of the Rocky Mountains, which are host to unique plant and wetland communities. Fens are a special type of groundwater-fed wetland found in alpine valleys, which tend to occur near existing raw water collection infrastructure or in areas that may be considered desirable for future water development projects. Fens perform critical environmental functions such as improvement of water quality and maintenance of stream base flows. Fens are made up of peat soils, which take thousands of years to accumulate. Consequently, the U.S. Fish and Wildlife Service has designated fens as "Resource Category 1" habitats, whereby its management goal is no net loss of habitat function. Currently, no acceptable form of mitigation for impacts to fens is recognized by federal jurisdictional agencies; as a result, the ability to acquire authorizations for work that may adversely affect fens poses many challenges.

The City of Aurora is the lead sponsor of the Rocky Mountain Fen Research Project (Project), located near Leadville, Colorado, whereby its objective is to demonstrate the viability of a new peat soil transplanting technique for future application as a fen mitigation tool. The Project will explore the feasibility of extracting intact fen-like peat soils and vegetation from a "harvest site" for transplant to a "receiver site," which exhibits suitable hydrological properties to support fen habitat. The Project will include monitoring changes over time to determine whether the ecological form, function, and site hydrology of the fen habitat at the receiver site can be maintained with little or no intervention. A beneficial outcome of the Project is that it will advance scientific knowledge of fen restoration with the ultimate goal of establishing a new fen mitigation method acceptable to federal jurisdictional agencies.

The Project represents a valuable partnership opportunity for Denver Water because the findings of this study are directly relevant to fen mitigation applications or environmental offsets should it become necessary in the future that Denver Water mitigate for fen impacts caused by improvements to Antero Reservoir or necessary maintenance activities to existing infrastructure throughout Denver Water's collection system. Denver Water's participation in the Project demonstrates its commitment to being a responsible steward of the natural environment and serves to augment the value of the contributions Denver Water has already made to the fen research community to date through its Four Mile Creek Fen Mitigation Project.

Notably, Project partners include the U.S. Fish and Wildlife Service, the U.S. Army Corps of Engineers, and the U.S. Environmental Protection Agency. Denver Water's participation in the Project provides the opportunity to strengthen its relationship with the federal agency Project partners as well as foster important regional partnerships with the Project's funding partners, which include the City of Aurora, Colorado Springs Utilities, and Pueblo Board of Water Works. The Project Coordinator and landowner of the receiving site is Colorado Mountain Local College District, a Colorado statutory junior college and the sole entity with whom Denver Water would enter into a Funding Agreement for its participation in the Project.

### Budget Information:

The cost for participation as a funding party in this first year of the Project is available in the Environmental Planning budget under MPC 4JA0005. Future year funding obligations will be included in the 10-year budget.

Denver Water will be a funding party of the Project and as part of the Funding Agreement, commits to pay to Colorado Mountain Local College District as follows:

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1. For the first year of the Project, Denver Water will pay \$20,000 within thirty (30) days of notice by CMC that the Project is fully funded.
2. For the second through and including the sixth year of the Project, Denver Water will pay \$26,000 on June 1 of each year, starting June 1, 2017.
3. Denver Water's total payments will not exceed \$150,000 pursuant to this Agreement.

2016 Budget	\$	75,000.00
Amount Requested This Item	\$	150,000.00
YTD Expenditures	\$	23,304.32
Dollars Budgeted for Future Years (2017-2021)TBD	\$	0.00
Revised Estimate	\$	0.00
Budget Adjustment	\$	0.00

Recommendation:

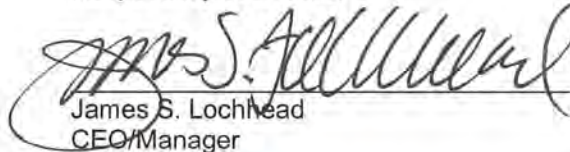
It is recommended that the Board approve the Funding Agreement Contract #16768A with Colorado Mountain Local College District for Denver Water's participation as a funding party in the Rocky Mountain Fen Research Project for the contract period August 1, 2016 to July 31, 2021 for a total contract amount not to exceed \$150,000.00.

**Approvals:**



Mike King  
Director of Planning

Respectfully submitted,



James S. Lochhead  
CEO/Manager



Terri Bryant  
Controller

# DENVER BOARD OF WATER COMMISSIONERS

Meeting Date: June, 22 2016

Board Item: IJ-A-3

## Eurofins Eaton Analytical Contract # 16394A

Action by Consent

Action

Information

### Summary:

Eurofins Eaton Analytical has been selected as the successful bidder to perform water sample analysis for the Board's Water Quality Lab in support of the "Everything under the Sun" (EUTS) monitoring program.

The EUTS program was designed to give an expanded perspective on water quality in Denver Water's source, drinking, and recycled waters. EUTS monitors chemical parameters that are not mandated by Federal and State regulatory requirements at this time but, are classified as contaminants of emerging concern that may become regulated in the future.

The types of chemicals the EUTS program monitors are pharmaceuticals, consumer products, pesticides, fertilizers, and other chemicals whose impact on human and environmental health is not fully understood at this time.

Since the impact of these chemicals are not well understood, EUTS strategically monitors over a longer term on a less frequent basis. Samples for the EUTS program are taken on a quarterly basis and it is desired to monitor these chemicals over a period of years.

The data from the EUTS program will provide a trending rate that will inform our capital planning and will allow DW to select the proper treatment technologies if these chemical parameters become regulated.

The equipment and facilities needed to properly analyze the chemicals in the EUTS program are not in the scope or capabilities of the DW Water Quality Laboratory so the need for an outside service provider is required.

### Budget Information:

Funds for these services were included in the 2016 Operations and Maintenance budget and will be added to the 2017 through 2019 budgets to cover the remainder of the contract.

2016 Budget	\$ 180,000.00
Amount Requested This Item	\$ 260,000.00
YTD Expenditures	\$ 20,379.00
Dollars Budgeted for Future Years	\$ 975,000.00
Revised Estimate	\$ 0.00
Budget Adjustment	\$ 0.00

### Selection of Business Partner:

Denver Water issued a request for proposal (RFP) to the public on the Rocky Mountain E-Purchasing System (BidNet), Denver Water's website, and notified the SBE and MWBE community. Denver Water received two proposals, none were SBE or MWBE. Eurofins, LLC was selected based on their Chemical Testing Program, Price, Service Level, Vendor's Experience and Understanding of Work.

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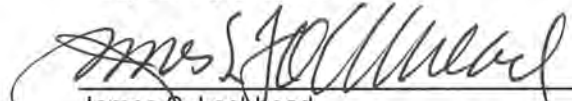
Recommendation:

It is recommended that the Board approve Contract 16394A with Eurofins Eaton Analytical for drinking water sample analysis for the contract period June 22, 2016 through June 30, 2019 for a total contract amount not to exceed \$260,000.00.

**Approvals:**

  
\_\_\_\_\_  
Thomas J. Roode  
Director of Operations and Maintenance

Respectfully submitted,

  
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James S. Lochhead  
CEO/Manager

  
\_\_\_\_\_  
Terri Bryant  
Controller

## DENVER BOARD OF WATER COMMISSIONERS

Meeting Date: June 22, 2016

Board Item: II-A-4

### Denovo Ventures LLC – Second Contract Amendment Contract # 15743

 Action by Consent

 Action

 Information

#### Summary:

As a part of the ORCA project, Denovo Ventures is providing a number of key staffing resources to complete the reimplementation of the chart of accounts within the JDE financial system. This amendment will provide additional time and funds to complete the following:

1) Customer Forecasting Module: In March, 2016, the ORCA executive sponsors approved the creation of a customized forecasting module within JDE to support monthly forecasting of operational and project expenses. The out-of-the-box JDE forecasting module has proven to be inadequate for Denver Water's needs. The forecasting limitations in JDE are known to be a common problem for most JDE customers. At the April 13, 2016 Board Meeting, the Board was advised of this decision and that a contract amendment would be forthcoming. An additional 500 hours (\$82,000) is planned for this work. This customization will be delivered in September, 2016.

2) Extension of JDE Subject Matter Expert through the end of August, 2016: In order to complete the work required for Go-Live on July 5, 2016, and provide adequate post Go-Live support, we are planning to extend the amount of time we had planned for one of our subject matter experts. This amount is an additional 390 hours (\$69,000).

3) Production support post Go-Live through December, 2016: Given the significant impact of the reimplementation of the JDE financial system to multiple end-users, we are anticipating the business will continue to learn and evolve as we progress through the year, potentially resulting in additional enhancements that will require support beyond the capacity of the IT team responsible for JDE. Additionally, this additional time and funding will help ensure a smooth transition through 2016. An additional 400 hours (\$70,000) is requested to provide this contingency and will only be used to the degree needed.

#### Budget Information:

The costs for this contract amendment with Denovo Ventures LLC, for the ORCA project are included in the 2016 IT Capital budget under MPC 3HN0066, TOE 5900.

2016 Budget	\$ 1,858,688
Amount Requested This Item	\$ 221,000
YTD Expenditures	\$ 621,315
Dollars Budgeted for Future Years	\$ 0
Revised Estimate	\$ 1,858,688
Budget Adjustment	\$ 0

#### Selection of Business Partner:

In February, 2015 Denovo Ventures LLC was selected through an open competitive Request for Proposal process, managed by the Purchasing & Contracts section. The RFP was sent to 11 vendors that could perform the work and we did not post the RFP to BidNet or send it to the chamber organizations for that reason. Subsequent to the February 25, 2015 Board meeting, we changed our standard process to post to BidNet and notify the chambers even if we are directly soliciting a bidder's list. Three firms responded to the RFP. The responses were evaluated based on a number of criteria including consultant experience, understanding of the work to be performed, professional references, proposed approach and methodology and proposal pricing. The two top proposers were selected for further consideration; Denovo Ventures, LLC dba Denovo and Smartbridge, a certified MWBE Consultant. Interviews were conducted with each vendor to further evaluate their proposed methodologies and

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work plans. Following an analysis of each firm's response and interview, Denovo Ventures, LLC dba Denovo was selected.

Recommendation:

It is recommended that the Board approve this Second Amendment to Contract 15743A with Denovo Ventures LLC for professional services for an extension of the contract period through December 31, 2016, and for an addition of \$221,000, for a total amended contract amount not to exceed \$856,124.

**Approvals:**

DocuSigned by:



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Chris Dermody

Director of Information Technology



Angela Brimont  
Director of Finance

Respectfully submitted,



James S. Lochhead  
CEO/Manager



Terri Bryant  
Controller

# DENVER BOARD OF WATER COMMISSIONERS

Meeting Date: June 22, 2016

Board Item: II-A-5

## Tabulation of Bids for Kendrick Reservoir and Pump Station Landscape and Irrigation Renovations Contract 16645A

Action by Consent

Action

Information

### Background:

The Kendrick Reservoir and Pump Station is a working facility located at 9380 West Jewel Ave., Lakewood CO. It was constructed in 1969 by R.A. Nielsen Construction Company and three years later the Basin 1 reservoir was built by W.B. Industries. The irrigation system was installed in 1974 over the northern half of the site as the southern half was left undeveloped for future storage. This project consists of replacing a 42-year old irrigation system and upgrading access to critical vaults via a new recycled asphalt road. Additionally, the work also consists of repairing concrete curbs, gutters, sidewalks, and asphalt pavement in the main access drive and replacing the galvanized chain link fabric along West Jewel Avenue, which has deteriorated as well as replacing some failed plant material throughout the site. On June 7, 2016, bids were received for the Kendrick Reservoir and Pump Station Landscape and Irrigation Renovations.

### Selection of Business Partner:

Denver Water notified all four Contractors on our Prequalified Contractors List under the Landscape, Irrigation and Fencing discipline. This project was a public open-competitive bid conducted by using Invitation for Bids on the QuestCDN platform. Three firms bid on the project, and the lowest qualified bid was submitted by Environmental Logistics of Denver, Colorado in the amount of \$225,375. The 90% Opinion of Probable Cost for the work was \$211,633.

Bid Tab			
Engineer's Opinion of Probable Cost	Environmental Logistics	CTM, Inc.	Colorado Designsapes, Inc.
\$211,633	\$225,375	\$243,250	Unresponsive Bidder

### Budget Information:

The 2016 Capital Improvement Plan (MPC 2DB5011) does not include sufficient funds for this project. A project budget adjustment is recommended by the System and Program Managers.

2016 Budget	\$	195,000
Amount Requested This Item	\$	225,375
YTD Expenditures	\$	4,593
Dollars Budgeted for Future Years	\$	0
Revised Estimate	\$	230,000
Project Adjustment	\$	35,000

### S/MWBE Information:

The Minority and Women Business Enterprise (MWBE) goal established for this construction project is 8% participation. Environmental Logistics of Denver, Colorado achieved 41.18% MWBE participation.

### Summary and Recommendation:


It is recommended that the Board approve Contract 16645A with Environmental Logistics for construction of the Kendrick Pump Station Landscape and Irrigation Renovations Project for contract period June 22, 2016 through October 28, 2016 for a total contract amount not to exceed \$225,375.

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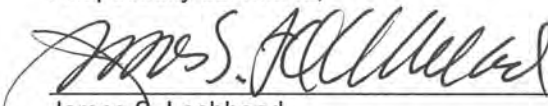


**Approvals:**

  
\_\_\_\_\_  
Robert J. Mahoney  
Director of Engineering

  
\_\_\_\_\_  
Angela Bricmont  
Director of Finance

Respectfully submitted,

  
\_\_\_\_\_  
James S. Lochhead  
CEO/Manager

  
\_\_\_\_\_  
Terri Bryant  
Controller

# DENVER BOARD OF WATER COMMISSIONERS

Meeting Date: June 22, 2016

Board Item: II-A-6

## Tabulations of Proposals for Marston Speece Cone Pump and Cable Replacement Contract 16699A

Action by Consent

Action

Information

### Background:

The Marston Treatment Plant pulls from the Marston Forebay for treatment. Due to water quality degradation issues, a Speece Cone was installed in the reservoir in 2009 to help oxygenate the water and resolve the water quality (taste and odor) issues. The Speece Cone has worked well in improving water quality. The Speece Cone is currently inoperable due to a faulty pump and underwater electric cable. The replacement pump and cables were purchased under Contract 16646A but will be installed under this Contract.

### Selection of Business Partner:

Due to the complexity of the work, Denver Water solicited proposals from two pre-qualified Contractors that are able to perform underwater construction. This solicitation was a restricted proposal process using Instructions to Proposers on the QuestCDN platform. Both pre-qualified Contractors submitted proposals. The lowest qualified proposal was submitted by Global Diving & Salvage, Inc. of Seattle, Washington in the amount of \$109,180. The Engineers Opinion of Probable Cost for the work was \$135,000.

Bid Tab		
Engineer's Opinion of Probable Cost	Global Diving and Salvage, Inc.	Ballard Marine Construction, Inc.
\$135,000	\$109,180	\$194,000

### Budget Information:

The 2016 Capital Improvement Plan (MPC 2CE5085) does not include sufficient funds for this project. A project budget adjustment is recommended by the System and Program Managers.

2016 Budget	\$	0
Amount Requested This Item	\$	109,180
YTD Expenditures	\$	0
Previously Approved Funds	\$	123,845
Dollars Budgeted for Future Years	\$	0
Revised Estimate	\$	275,000
Additional Project Adjustment	\$	151,155

### S/MWBE Information:

*The Minority and Women Business Enterprise (MWBE) goal established for this construction project is 3% participation. Global Diving & Salvage, Inc. achieved 3.02% MWBE participation.*

### Summary and Recommendation:

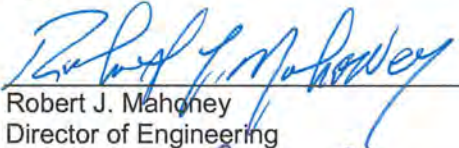
It is recommended that the Board approve Contract 16699A with Global Diving & Salvage, Inc. for the Marston Speece Cone Pump and Cable Replacement project for the contract period of June 22, 2016 to August 31, 2016 for a total contract amount not to exceed \$109,180.

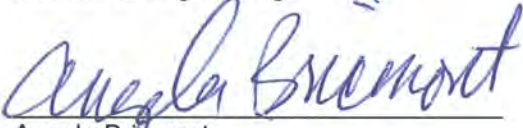
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**Approvals:**

  
\_\_\_\_\_  
Robert J. Mahoney  
Director of Engineering

  
\_\_\_\_\_  
Angela Bricmont  
Director of Finance

Respectfully submitted,

  
\_\_\_\_\_  
James S. Lochhead  
CEO/Manager

  
\_\_\_\_\_  
Terri Bryant  
Controller

# DENVER BOARD OF WATER COMMISSIONERS

Meeting Date: June 22, 2016

Board Item: II-A-7

## Tabulation of Bids for the Ralston Dam Primary and Auxiliary Spillway Repairs Contract 16409A

Action by Consent

Action

Information

### Background:

Ralston Dam's reinforced concrete spillways were constructed in 1937 and have undergone routine repairs over the years to address cracked and spalled areas. More recently, especially since higher flows occurred in the 2013 flooding event, the deteriorated areas have grown in extent and severity and more comprehensive repairs are required to preserve the integrity of the spillways. The contract includes providing all necessary labor, equipment, and materials to repair the spillways.

### Selection of Business Partner:

Denver Water solicited proposals from four Contractors on the Prequalified Contractors List under the Structural Repairs discipline. This Contract was a restricted bidding process using Instruction to Bidders on the QuestCDN platform. Four General Contractors were pre-qualified to propose on the work and three submitted proposals. The lowest qualified proposal was submitted by Concrete Works of Colorado, Inc. in the amount of \$642,320. The Engineers Opinion of Probable Cost for the work was \$542,960.

Bid Tab			
Engineer's Opinion of Probable Cost	Concrete Works of Colorado	Restruction Corp.	Archer Western
\$542,960	\$642,320	\$761,302	Unresponsive Bidder

### Budget Information:

The 2016 Operations Budget (MPC 4AN0040) does not include sufficient funds for this project. A project budget adjustment is recommended by the System and Program Managers.

2016 Budget	\$	550,000
Amount Requested This Item	\$	642,320
YTD Expenditures	\$	0
Dollars Budgeted for Future Years	\$	0
Revised Estimate	\$	642,320
Project Adjustment	\$	92,320

### S/MWBE Information:

*There was a 3% Minority Women Business Enterprise (MWBE) participation goal required for the construction portion of the project. Concrete Works of Colorado, Inc. achieved a goal of 3%.*

### Summary and Recommendation:

It is recommended that the Board approve Contract 16409A with Concrete Works of Colorado, Inc. for the Ralston Dam Primary and Auxiliary Spillway Repairs project for the contract period August 1, 2016 through October 14, 2016 for a total contract amount not to exceed \$642,320.

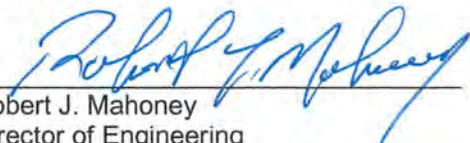
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**Approvals:**

  
\_\_\_\_\_  
Robert J. Mahoney  
Director of Engineering

  
\_\_\_\_\_  
Angela Brimont  
Director of Finance

Respectfully submitted,

  
\_\_\_\_\_  
James S. Lochhead  
CEO/Manager

  
\_\_\_\_\_  
Terri Bryant  
Controller

# DENVER BOARD OF WATER COMMISSIONERS

Meeting Date: June 22, 2016

Board Item: II-A-8

## Tabulation of Proposals for the Moffat Treatment Plant Centrifuge Dewatering System Contract 15547A

Action by Consent

Action

Information

### Background:

As part of the North System Renewal Program, a new Conduit No. 16 will convey water from the North System Renewal Water Treatment Plant to the existing Moffat Treatment Plant (TP) site, where it will tie-in to the distribution system. Some portions of the alignment of Conduit No. 16 overlap with the existing solids pipeline, which transports solids from the TP to the Ralston Drying Beds. This pipeline will be demolished during construction of Conduit No. 16, which would cause the TP to shut down in 2018, unless a new solids management system is established. An alternatives analysis was conducted to evaluate construction of a new solids pipeline versus construction of an onsite solids handling system, either using a belt filter press or a centrifuge. The onsite centrifuge system was the most cost effective, most operator friendly and had the highest potential for reuse of equipment. Solids from the existing gravity thickener will be stored and homogenized in a new lined equalization pond on the TP site and then pumped to a centrifuge located in a new Solids Handling Building, also on the TP site. Dewatered sludge will be conveyed into roll-off containers and hauled offsite for final disposal. Centrate from the centrifuge will be pumped back to the headworks and blended with raw water.

On June 6, 2016, proposals were received for a new Moffat Treatment Plant Centrifuge Dewatering System. Previously awarded Contract 15530A, in the amount of \$256,980 for the purchase of centrifuge equipment, was approved on August 27, 2014.

### Selection of Business Partner:

Denver Water solicited proposals from four Contractors on the Prequalified Contractors List under the Water Treatment and Pump Stations discipline. This Contract was a restricted proposal process using Instruction to Proposers on the QuestCDN platform. Four General Contractors were pre-qualified to propose on the work and three submitted proposals. The lowest qualified proposal was submitted by Aslan Construction, Inc. of Berthoud, Colorado for \$2,615,060. The Engineers Opinion of Probable Cost for the work was \$3,300,000.

Bid Tab			
Engineer's Opinion of Probable Cost	Aslan Construction, Inc.	Garney Companies	MWH Constructors, Inc.
\$3,300,000	\$2,615,060	\$3,119,000	\$3,228,323

### Budget Information:

The 2016 Capital Improvement Plan (MPC 1CE1000) does not include sufficient funds for this project. Expenditures for this project will be paid in 2016 through 2017. A project budget adjustment is recommended by the System and Program Managers.

2016 Budget	\$	500,000
Amount Requested This Item	\$	2,615,060
Current Year Expenditures	\$	37,751
Dollars Budgeted for Future Years	\$	2,000,000
Revised Estimate	\$	3,000,000
Project Adjustment	\$	500,000

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S/MWBE Information:

The Minority and Women Business Enterprise (MWBE) goal established for this construction project is 5% participation. Aslan Construction, Inc. of Berthoud, Colorado achieved 5.54% MWBE participation.

Summary and Recommendation:

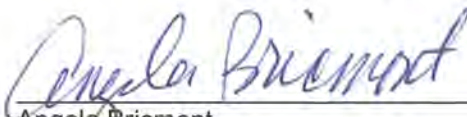
It is recommended that the Board approve Contract 15547A with Aslan Construction, Inc. of Berthoud, Colorado for the Moffat Treatment Plant Centrifuge Dewatering System project for the contract period of June 22, 2016 through December 1, 2017 for a total contract amount not to exceed \$2,615,060.

**Approvals:**

  
Robert J. Mahoney  
Director of Engineering

Respectfully submitted,

  
James S. Lochhead  
CEO/Manager

  
Angela Bricmont  
Director of Finance

  
Terri Bryant  
Controller

# DENVER BOARD OF WATER COMMISSIONERS

Meeting Date: June 22, 2016

Board Item: II-A-9

## Amendment No. 3 with AECOM (formerly URS Corporation) for the Ralston Dam Outlet Works and Reservoir Bypass Pipeline Alternatives Study Contract 15777A

Action by Consent

Action

Information

### Background:

Ralston Reservoir is a critical component of Denver Water's north collection system. Due to the age of the north collection system, all of the infrastructure is being evaluated for its adequacy for long-term performance and to meet current and future needs. Most of this infrastructure was installed in the 1930s when the original Moffat Treatment Plant was built. Specifically, this amendment addresses the design of rehabilitation of the Ralston Reservoir Outlet Works including a new upstream control valve, repairing or replacing a 60-inch conduit through the dam, refurbishing a 4-foot by 5-foot slide gate, replacing a 48-inch conduit from the Valve House to the Outlet Works, and constructing a new Outlet Works Facility. There has been an extensive alternatives study performed jointly by Denver Water and AECOM that helped outline the scope of work that is required.

### Selection of Business Partner:

AECOM was selected for the Ralston Dam Outlet Works and Reservoir Bypass Alternatives Study through a competitive request for proposals process, where they competed against two other qualified firms. They have performed well and are providing a good value, and it was stipulated in the original agreement that there could be additional work authorized as a result of their performance. Denver Water's design staff are unavailable to work on Amendment work, so the scope is being amended to AECOM's Contract.

### Budget Information:

The 2016 Capital Improvement Plan (MPC 2AW0001) includes sufficient funds for this project.

2016 Budget	\$	750,000
Amount Requested This Item	\$	479,630
YTD Expenditures	\$	24,962
Dollars Budgeted for Future Years	\$	17,500,000
Revised 2016 Estimate	\$	750,000
Project Adjustment	\$	0

### S/MWBE Information:

*Due to the specialized nature of the work, no Minority and Women Business Enterprise (MWBE) goal was established for the design portion of the project. Participation will be required during project construction*

### Summary and Recommendation:

It is recommended that the Board approve the Third Amendment to Agreement 15777A with AECOM for Ralston Dam Outlet Works and Reservoir Bypass Pipeline Alternatives Study for an extension of the contract period through January 31, 2017 and for an addition of \$479,630 for a total amended contract amount not to exceed \$811,000

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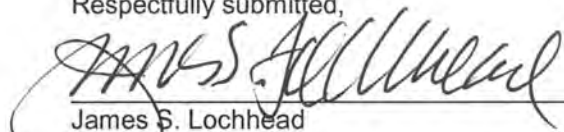
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**Approvals:**

  
\_\_\_\_\_  
Robert J. Mahoney  
Director of Engineering

Respectfully submitted,

  
\_\_\_\_\_  
James S. Lochhead  
CEO/Manager

  
\_\_\_\_\_  
Terri Bryant  
Controller

# DENVER BOARD OF WATER COMMISSIONERS

Meeting Date: June 22, 2016

Board Item: II-A-10

## Change Order No. 3 with ASI Constructors, Inc. For the High Line Canal Diversion Dam Replacement Contract 16420A

Action by Consent

Action

Information

### Background:

During high flows during the spring 2015 runoff, the 90+ year old High Line Canal Diversion Dam was breached, and the resulting scour damaged both the superstructure and foundation of the dam such that Engineering determined the full replacement of the dam was required. The action of the river also scoured and moved the riverbed bottom such that Conduit No. 20 upstream of the dam was exposed. In order to restore the service to High Line Canal customers and protect Conduit No. 20, Denver Water Engineering designed a replacement dam and, through a Consultant, designed a riverbed restoration grading plan.

On December 16, 2015, the Board approved Contract 16420A in the amount of \$1,270,000 with ASI Constructors, Inc. to perform the High Line Canal Diversion Dam Replacement Project. The Contract work included the following major components: Diversion of the South Platte River at the High Line Canal Intake Gates, demolition of the existing damaged High Line Canal Diversion Dam wooden superstructure, dewatering of the new dam foundation, construction of a new reinforced concrete foundation, fabrication and erection of a timber trusses, sheathing of the new dam superstructure, backfill of the new dam and restoration of the river channel and adjacent banks.

Change Order No. 1 provided \$50,000 as an allowance for additional work required to stabilize a portion of the deficient dam foundation that was uncovered after demolition and removal of the original damaged dam structure. Change Order No. 2 provided \$90,000 in additional funds to continue foundation repairs that were deemed necessary after the entire foundation was exposed.

Change Order No. 3 provides reimbursement for the remainder of foundation repairs resulting from the unforeseen foundation deficiencies, a credit for original work scope eliminated during the repair process, added sheet piling for the temporary diversion of the South Platte River to the High Line Canal, modified fasteners for the deck sheathing system, additional general conditions, remobilization and demobilization costs, and added future site restoration costs resulting from the early inundation of the dam site in April, 2016 by high South Platte River flows.

### Budget Information:

The 2015 Capital Improvement Plan (MPC 2AA5054) includes sufficient funds for this project.

2016 Budget	\$	2,000,000
Amount Requested This Item	\$	228,735
YTD Expenditures	\$	1,410,184
Dollars Budgeted for Future Years	\$	0
Revised Estimate	\$	2,000,000
Project Adjustment	\$	0

### S/MWBE Information:

*The Minority and Women Business Enterprise (MWBE) goal established for this construction project was 3% participation. ASI Constructors, Inc. achieved 4.3% MWBE participation.*

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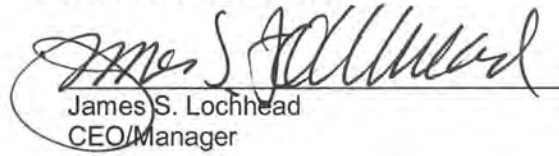
Summary and Recommendation:

It is recommended that the Board ratify Change Order No. 3 to Contract 16420A in the amount of \$228,734.78.

**Approvals:**

Respectfully submitted,

  
\_\_\_\_\_  
Robert J. Mahoney  
Director of Engineering

  
\_\_\_\_\_  
James S. Lochhead  
CEO/Manager

  
\_\_\_\_\_  
Angela Brimont  
Director of Finance

  
\_\_\_\_\_  
Terri Bryant  
Controller

## DENVER BOARD OF WATER COMMISSIONERS

Meeting Date: June 22, 2016

Board Item: II-A-11

### Annual Contracts Scheduled to Renew and/or Require Additional Funding in the 3<sup>rd</sup> Quarter of 2016

 Action by Consent Action Information

Denver Water has a number of contracts that renew on an annual basis, some of which require additional funding for the following contract year. Contract administrators have determined that the contracts described in the attachments continue to be of value and are necessary to the operation of Denver Water and were originally procured following our procurement policy at the time of the contract. The original terms and conditions of these contracts remain unchanged. However, for the coming year the contracts require additional funding of more than \$100,000 or additional funding that will cause the total contract expenditures to exceed \$100,000.

Recommendation:

It is recommended that the Board approve the additional funding indicated for each of the contracts described in the attached Authorizations for Additional Contract Funds.

**Approvals:**

DocuSigned by:



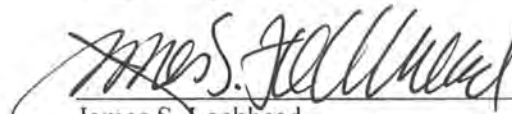
40856184EE6C461  
Brian D. Good

Director of Administrative Services



Terri Bryant, CPA  
Controller

Respectfully submitted,



James S. Lochhead  
CEO/Manager



# DENVER BOARD OF WATER COMMISSIONERS

Meeting Date: June 22, 2016

Board Item: II-A-12

## First Amendment for PolyDADMAC Polymer Contract # 13813A

Action by Consent

Action

Information

### Summary:

PolyDADMAC Polymer is used as a filter coagulant aid in the removal of particulates during the water treatment process to provide higher water quality. Since this contract was originally bid, other suppliers have entered the market. In order to increase the opportunities for competitive bids, Denver Water would like to extend this contract for additional time and money to allow staff to prequalify other vendors and increase the pool of potential bidders for the new contract.

### Budget Information:

Funds for this item were included in the 2016 Operations and Maintenance budget. Sufficient funds will be added to the operations budget for 2017 to cover the remainder of this contract.

2016 Budget	\$	105,310
Amount Requested This Item	\$	225,000
YTD Expenditures	\$	24,401
Dollars Budgeted for Future Years	\$	0.00
Revised Estimate	\$	0.00
Budget Adjustment	\$	


### Selection of Business Partner:

The Denver Water Purchasing & Contracting section issued a Request for Proposal (RFP) in January 2012. Based on proposals received, Denver Water selected BASF to provide its proprietary PolyDADMAC polymer formulation in accordance with the specifications detailed in the RFP. The original contract term and amount was for five (5) years and \$2,925,000. This First Amendment extends the contract term for four (4) months to allow Denver Water adequate time to solicit a new Request for Qualification and Request for Proposal to other vendors with their own PolyDADMAC polymer formulations. Price per pound remains unchanged at \$0.45/lb.


### Recommendation:

It is recommended that the Board approve the First Amendment to Contract 13813A with BASF for PolyDADMAC Polymer for an extension of the contract period through April 30, 2017 and for an addition of \$225,000.00 for a total amended contract amount not to exceed \$3,150,000.00.

### Approvals:

  
Thomas J. Roode  
Director of Operations and Maintenance

Respectfully submitted,

  
James S. Lochhead  
CEO/Manager

  
Terri Bryant  
Controller

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# DENVER BOARD OF WATER COMMISSIONERS

Meeting Date: June 22, 2016

Board Item: II-B-1

## Radio Tower Lease Agreement Contract # 16756A

Action by Consent

Action

Information

### Summary:

A key infrastructure component of the new city-wide VHF Radio Communication System project is a site lease for the Mt. Morrison radio tower. The new VHF radio system will provide comparable wide-area radio coverage compared to the City and County of Denver's current 800 MHz radio system that Denver Water currently leases. A high elevation site like Mt. Morrison provides the best single site coverage for our service area. When a repeater on Mt. Morrison is combined with a repeater at Denver Water's 64<sup>th</sup> Avenue Pump Station site near DIA (E470 Site), radio coverage for the our service area is increased significantly. Coverage maps are attached for reference.

Denver Water received FCC approval to operate a VHF (150MHz) repeater at the Mt. Morrison site and has negotiated a 10 year lease with Bear Creek Development Corporation for space on their radio tower on Mt. Morrison. The ten year lease term runs from May 1, 2016 to April 30, 2026 at a starting cost of \$47,000 per year, with annual cost escalation of 3%. Additionally, Denver Water will also pay sub-metered electrical costs for its equipment mounted on the tower, estimated to be \$3,650 per year on average over the ten year lease. Bear Creek Development Corp. agrees to abate rent for calendar year 2016. Payments for this lease will begin in January of 2017.

To insure continuous radio coverage for Denver Water, it is anticipated that for the year 2017, Denver Water will pay the current annual fee of \$44,000 for continued use of the City's radio system until the new VHF city-wide radio system is fully implemented and tested. Once Denver Water cuts over to the new radio system in 2018, we will no longer pay this fee which will help minimize the budget impact of the additional Mt Morrison tower lease.

### Budget Information:

The cost of this lease will be included in the proposed IT Network Services budgets for 2017-2027 under 4HE0001, TOE 5010.

2016 Budget - 4HE0001 5010	\$	129,520
Amount Requested This Item	\$	575,500
YTD Expenditures	\$	10,715
Dollars To Be Budgeted for Future Years	\$	575,500
Revised Estimate	\$	129,520
Budget Adjustment	\$	0

### Selection of Business Partner:

Bear Creek Development Corporation was chosen as our business partner because they are the only viable option for leasing space on a high elevation tower that will provide the necessary radio frequency coverage across Denver Water's service area.

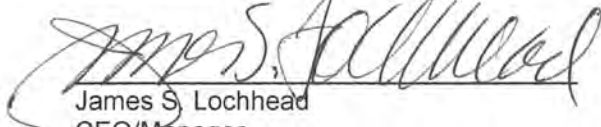
### Recommendation:

It is recommended that the Board approve Contract 16756A with Bear Creek Development Corporation for a 10 year lease on their radio tower at Mt. Morrison, for the contract period May 1, 2016 to April 30, 2026, for a total contract amount not to exceed \$575,500.

**Approvals:**

  
\_\_\_\_\_  
Chris Dermody  
Director of Information Technology

Respectfully submitted,

  
\_\_\_\_\_  
James S. Lochhead  
CEO/Manager

  
\_\_\_\_\_  
Terri Bryant  
Controller

# DENVER BOARD OF WATER COMMISSIONERS

Meeting Date: June 22, 2016

Board Item: II-B-2

## Wireless Communications Consultant – Second Amendment Contract # 15443A

Action by Consent

Action

Information

### Summary:

Denver Water has been using the City and County of Denver's public service radio system for many years at a current annual cost of approx. \$44,000/year. Over the past number of years, our allocated capacity on the City's radio system has been reduced, putting Denver Water's access to radio communications at risk, particularly during emergencies and other times of peak demand. The City is currently in the process of upgrading its radio system to comply with FCC narrow-band frequency regulations in 2018. If Denver Water wished to continue utilizing the City's upgraded radio system, we would be required to purchase new individual radios at a cost of approx. \$1,000,000.

In July, 2014, Pericle Communications Company was selected through an RFP process to lead a two-phased project to design and oversee the implementation of a new Denver Water owned city-wide radio communication system, at a cost comparable to the cost required to continue using the City's radio system. The new radio system will provide Denver Water with increased communication capacity and enable interoperability with our Source of Supply and Water Treatment Plant radio systems, a capability that cannot be implemented with the City's upgraded radio system.

Original project cost estimates were:

Phase I - design, RFP development and vendor selection:	\$128,000
Phase II - implementation consulting & project management:	<u>\$291,000</u>
Total:	\$419,000

Phase I of the project has been largely completed by Pericle Communications, however challenges in creating an optimal system design that will meet the needs for strong city-wide coverage resulted in higher than estimated costs related to the acquisition of FCC frequency licenses and the need to incorporate an additional radio tower into the overall system design. The Phase I cost increases will be more than offset by Phase II cost decreases, which resulted from reduction in system implementation risks.

Updated (current) project cost estimates are:

Phase I- design, RFP development and vendor selection:	\$185,000
Phase II - implementation consulting & project management	<u>\$218,000</u>
Total:	\$403,000

Given the anticipated risks in achieving an optimal system design that would meet our needs, Denver Water chose to initially fund only the originally estimated costs for Phase I of the project (\$128,000), and defer funding for Phase II, pending completion of final system design work in Phase I.

This contract amendment will provide funding for the outstanding Phase I tasks and all of the Phase II implementation tasks. The outstanding Phase I tasks include publishing the RFP that was developed in Phase I for Phase II implementation services, assisting with the selection of the implementation vendor and assisting with contract negotiations. Phase II tasks include serving as our implementation consultant and project manager, coordination of acceptance testing, training and final system cutover.

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Budget Information:

Costs for this contract amendment are fully included in the 2016 IT Capital budget under 2HB0001, TOE's 3100, 5010 and 5900.

2016 Budget - 2HB0001/3100/5010/5900	\$	1,289,500
Amount Requested This Item	\$	274,612
YTD Expenditures	\$	0
Dollars To Be Budgeted for Future Years	\$	140,000
Revised Estimate	\$	1,289,500
Budget Adjustment	\$	0

Selection of Business Partner:

In July, 2014, Pericle Communications Company, a veteran-owned small business, was selected through an open competitive RFP process, managed by the Purchasing Section, to lead the implementation of the new city-wide radio communication system. Pericle Communications Company's proposal was selected out of six that were submitted through the Rocky Mountain E-Purchasing System (Bid-Net). Pericle continues to demonstrate that they meet the criteria of experience, technical qualifications, staffing plan, expert understanding of the work, and ability to deliver.

Recommendation:

It is recommended that the Board approve this Second Amendment to contract 15443A with Pericle Communications Company for wireless communication consulting and project management services for an extended contract period through August 31, 2018, and for an additional amount of \$274,612.00, for a total contract amount not to exceed \$402,732.00.

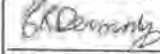
**Approvals:**

Respectfully submitted,

**Approvals:**

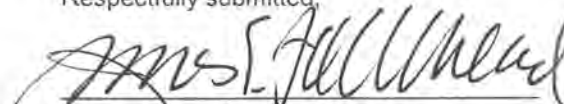
Respectfully submitted,

DocuSigned by:



Chris Derrinody

Director of Information Technology

  
James S. Lochhead  
CEO/Manager  
Terri Bryant  
Controller

# DENVER BOARD OF WATER COMMISSIONERS

Meeting Date: June 22, 2016

Board Item: II-B-3

## Provide Strategic Consulting Services for Denver Water's Integrated Resource Plan (IRP) Contract #16781A

Action by Consent

Action

Information

### Summary:

Denver Water is initiating a new Integrated Resource Plan (IRP) with the primary goal of establishing a secure water future for Denver Water's customers through 2065. The IRP will be developed through a comprehensive planning process that will include the entirety of Denver Water's system. Denver Water solicited proposals to provide Strategic Consulting Services during the development of its IRP. The Strategy Consultant will work closely with Denver Water's staff, the IRP Technical and Plan Development Consultant, and other consultants working for Denver Water. It is anticipated that the planning effort will be completed within two years.

### Budget Information:

The IRP is budgeted for 2016 and will continue into 2017 and 2018. The budgeted funds are sufficient for 2016 and funds for 2017 and 2018 will be included in the appropriate budgets. The IRP has been identified as one of Denver Water's key priorities and strategic consulting services will aid in the successful deliver of the IRP.

2016 Budget	\$	684,447
Amount Requested This Item	\$	360,000
YTD Expenditures	\$	70,230
Dollars Budgeted for Future Years	\$	2,300,000
Revised Estimate	\$	
Budget Adjustment	\$	

### Selection of Business Partner:

On April 5, 2016, Denver Water issued a Request for Proposals (RFP) for Strategic Consulting Services which focused on qualifications in eight areas: policy development, communications and messaging, meeting and workshop facilitation, stakeholder involvement, plan process development, organizational coordination, regional strategies, and report editing and plan rollout. The RFP was advertised on Denver Water's website, on SplashLink.com, by email, and through direct contact with approximately 10 potential firms.

Denver Water received six proposals. The proposals were evaluated on the firms' proposed approach, project personnel, and experience. Four firms were selected to interview with Denver Water's staff and were evaluated based on their interview performance and costs. Two firms were selected for a follow up interview. GBSM Inc. was selected to provide strategic consulting services due to their ability to provide expertise in all eight of the areas requested.

### Recommendation:

It is recommended that the Board approve Contract #16781A with GBSM Inc. for strategic consulting services for the IRP for the contract period June 27, 2016 through September 30, 2018 for a total contract amount not to exceed \$360,000.

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**Approvals:**

Alan Chotiner for Mike King  
Mike King  
Director of Planning

Respectfully submitted,

James S. Lochhead  
James S. Lochhead  
CEO/Manager

Terri Bryant  
Terri Bryant  
Controller

# DENVER BOARD OF WATER COMMISSIONERS

Meeting Date: June 22, 2016

Board Item: II-B-4

## Provide Technical and Plan Development Consulting Services for Denver Water's Integrated Resource Plan (IRP) Contract #16783A

Action by Consent

Action

Information

### Summary:

Denver Water is initiating a new Integrated Resource Plan (IRP) with the primary goal of establishing a secure water future for Denver Water's customers through 2065. The IRP will be developed through a comprehensive planning process that will include the entirety of Denver Water's system.

Denver Water solicited proposals to provide technical and plan development consulting services for the IRP. The selected consultant (CH2M) will work closely with Denver Water's staff, a Strategy Consultant, and other consultants working for Denver Water. It is anticipated that the planning effort will be completed within two years. This Board Item is for approximately the first 12 months of IRP work and future tasks will be negotiated as the IRP progresses.

### Budget Information:

The IRP is budgeted for 2016 and will continue into 2017 and 2018. The budgeted funds are sufficient for 2016 and funds for 2017 and 2018 will be included in the appropriate budgets. The IRP has been identified as one of Denver Water's key priorities and technical and plan development consulting services will aid in the successful delivery of the IRP.

2016 Budget	\$	684,447
Amount Requested This Item	\$	1,200,000
YTD Expenditures	\$	70,230
Dollars Budgeted for Future Years	\$	2,300,000
Revised Estimate	\$	
Budget Adjustment	\$	

### Selection of Business Partner:

On March 30, 2016, Denver Water issued a Request for Proposals (RFP) for technical and plan development consulting services. The RFP was advertised on Denver Water's website, on SplashLink.com, by email, and through direct contact with approximately 10 potential firms.

Denver Water received six proposals. The proposals were evaluated on the firms' proposed approach, project personnel, and experience. Three firms were selected to interview with Denver Water's staff and were evaluated based on their interview performance and costs. Two firms were selected for a follow up interview. CH2M HILL Engineers Inc. was selected to provide consulting services due to their ability to provide expertise in IRP plan development and all five of the areas requested.

### Recommendation:

It is recommended that the Board approve Contract #16783A with CH2M HILL Engineers, Inc. for the first year of technical and plan development consulting services for the IRP. The contract period is recommended from June 27, 2016 through September 30, 2017 for a total contract amount not to exceed \$1,200,000.

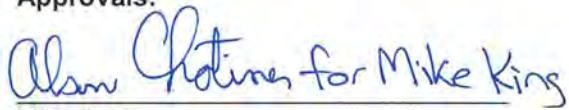
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**Approvals:**

Handwritten signature in blue ink that reads "Alson Photos for Mike King".

Mike King  
Director of Planning

Respectfully submitted,

Handwritten signature in blue ink that reads "James S. Lochhead".  
James S. Lochhead  
CEO/Manager

Handwritten signature in blue ink that reads "Terri Bryant".  
Terri Bryant  
Controller

# DENVER BOARD OF WATER COMMISSIONERS

Meeting Date: June, 22, 2016

Board Item: II-B-5

## Jim Creek Siphon Replacement Project 4<sup>th</sup> Contract Amendment for Johnson Environmental Consulting, Inc.

### Contract # 15505A

Action by Consent

Action

Information

#### Summary:

Johnson Environmental Consulting, Inc. (JEC) was retained in 2014 to conduct initial wetland surveys and delineations in support of multiple Denver Water projects in our Moffat Collection System. As the Jim Creek Siphon Replacement Project moved into the federal permitting process (U.S. Forest Service and U.S. Army Corps of Engineers) JEC's original scope of work was subsequently amended to include additional tasks and consultation services that were not contemplated at the outset, and to extend the duration of the contract.

The U.S. Forest Service is currently conducting a National Environmental Policy Act (NEPA) analysis that is necessary to support approval of the Jim Creek Siphon Replacement Project. An Environmental Assessment is expected to be released for public review by early fall 2016, with a final decision by the end of 2016. Following release of the Environmental Assessment, Denver Water will be submitting a Clean Water Act Section 404 individual permit application to the U.S. Army Corps of Engineers.

The 4th amendment to the original contract is necessary to accommodate tasks that have been identified to support U.S. Forest Service and U.S. Army Corps of Engineers approval of this project. These tasks will enable JEC to support the overall permitting process by: continuing to coordinate with federal agencies; performing a functional assessment of wetlands; assisting with technical compensatory mitigation planning; wetland monitoring. In particular, wetland monitoring is essential for establishing the baseline conditions in the project area for which to assess the success of future wetland restoration activities. Additional funds may be requested for future years budgets as needed.

#### Budget Information:

2016 Budget	\$	643,500
Amount Requested This Item	\$	52,007
YTD Expenditures	\$	416,402
Dollars Budgeted for Future Years	\$	210,000
Revised Estimate	\$	
Budget Adjustment	\$	

#### Selection of Business Partner:

A Request for Competitive Selection Waiver was approved for this amendment to Johnson Environmental Consulting, Inc. contract by Denver Water Purchasing and Contracting on June 6, 2016.

#### Recommendation:

It is recommended that the Board approve the 4<sup>th</sup> Amendment to Contract #15505A with Johnson Environmental Consulting, Inc. to provide technical expertise in the final phase of the permitting process for the Jim Creek Siphon Replacement Project. This amendment includes an additional \$52,007 – for a total amended contract amount not to exceed \$125,874 – and for an extension of the contracting period through May 31, 2017.

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**Approvals:**



---

Mike King  
Director of Planning

Respectfully submitted,



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James S. Lochhead  
CEO/Manager



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Terri Bryant  
Controller

# DENVER BOARD OF WATER COMMISSIONERS

Meeting Date: June 22, 2016

Board Item: II-B-6

## Personnel Policies – Miscellaneous Recommended Revisions

Chapter 1 (Definitions); § 2-4-(3) (Pay Advance); § 4-5-(3) (Appointment to Classified Positions); § 12-3 (Misc. Pay Policies)

Action by Consent

Action

Information

### Summary:

The recommended amendments accomplish the following:


- Adds a definition for "Chief" and modifies the definition of "Director" to address new job titles effective July 1, 2016.
- Modifies the definition for "Demotion" to clarify that a demotion results from corrective action or at an employee's request.
- Allows for the delegation of authority from the Board to the CEO/Manager regarding certain limited pay and job status issues. These changes promote Board efficiency.
- Changes to § 2-4-(3) are required to avoid constructive receipt issues associated with pay advances.

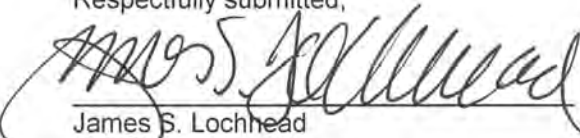
### Recommendation:

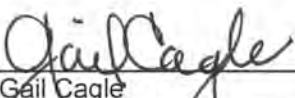
It is recommended that the Board approve the changes to the sections of the *Personnel Policies* as designated in the attachment, to become effective immediately. It is further recommended that if the Board approved the title changes recommended by these amendments, the Board also approve amendment of the policies as needed to incorporate the new titles so long as these changes do not substantively alter any levels of authority for corrective action currently approved by the Board.

### **Approvals:**

Respectfully submitted,

  
\_\_\_\_\_  
Patricia L. Wells  
General Counsel

  
\_\_\_\_\_  
James S. Lochhead  
CEO/Manager

  
\_\_\_\_\_  
Gail Cagle  
Director of Human Resources

# DENVER BOARD OF WATER COMMISSIONERS

Meeting Date: June 22, 2016

Board Item: V-A

## Briefing Paper 2016 Salary Budget

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Action by Consent

Action

Information

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### **Summary:**

We are facing a potential issue with our salary budget assumptions for 2016. Our vacancy rate – which includes separations and retirements – is trending lower than projected in this year's salary budget assumptions. If this trend continues, we will exceed our 2016 salary budget by approximately 1 percent (\$800,000).

### **Background:**

When we develop the annual salary budget each year, we make several assumptions to predict our vacancy rate. For example, we project retirements and open positions, time to fill, and salary. Historically, our vacancy rate has trended at about 6 percent. Based on this, the Budget Office reduces the salary budget by 6 percent in order to ensure more accurate budget-to-actual expenditures.

Currently, we have more budgeted positions filled than we originally projected, resulting in a lower vacancy rate. It is important to note, we have not yet exceeded the year-to-date 2016 salary budget; however, there is a possibility we will exceed the budget if we do not see an increase in the vacancy rate. While this number fluctuates and is hard to predict, we plan to closely monitor the trend and take action as necessary to reduce the budget overage, if necessary.

### **Approach:**

Human Resources has worked with each division to identify and prioritize all open positions. Every position request will be reviewed and prioritized by Human Resources, Finance and the Executive Office for approval. Based on this process, we have already decided to fill some critical positions and wait to fill others until we have more insight into budget trends. We will continue to keep the Board informed through monthly and quarterly reports as this issue evolves.

# DENVER BOARD OF WATER COMMISSIONERS

Meeting Date: June 22, 2016

Board Item: V-B

## Update on Contracts for the Strontia Springs Dam Emergency Reservoir Drainage System (ERDS) Rehabilitation

Action by Consent

Action

Information

### Background:

The Strontia Springs Dam and Reservoir is located on the South Platte River in Waterton Canyon upstream of Chatfield Reservoir. The dam is a 299-foot high concrete dam that diverts water from the South Platte River to the Foothills Water Treatment Plant and it also releases water to the South Platte River which is diverted downstream at the Conduit No. 20 Diversion Dam to the Marston Water Treatment Plant. The City of Aurora also has an intake tower for their water supply in the reservoir. Water is also released from the Strontia Springs Reservoir to maintain stream flow requirements on the South Platte River. At the bottom of the Strontia Springs Dam is a 4-foot by 4-foot steel lined outlet channel called the Emergency Reservoir Drainage System (ERDS). The ERDS has two bonneted gate valves and a hydropower turbine installed in it. The purpose of the ERDS is to sluice the sediment from the reservoir and to allow the reservoir to be fully drained, as well as supply water to the hydropower unit.

Currently, the ERDS is inoperable with one of the bonneted gate valves failed in the closed position. The inoperability of the ERDS presents an operational and dam safety issue since sediment is accumulating at the inlet to the ERDS, partially blocking the inlet, and the reservoir cannot be fully drained in the event it needs to be drained. This project will fully refurbish the ERDS and its associated valves to restore the condition of the ERDS to a like new state and return operability of the system to the original condition.


### Summary:

This Board Item is being presented to update the Board on how the approved 2016 project budget of \$4,150,000 is being spent to accomplish the goal of this project to fully restore the ERDS. The attached Exhibit A table shows the contracts that have been executed on this project to date and the remaining Contracts anticipated for 2016.

### **Approvals:**

  
Robert J. Mahoney  
Director of Engineering

Respectfully submitted,

  
James S. Lochhead  
CEO/Manager

  
Terri Bryant  
Controller