

AGENDA

Denver Board of Water Commissioners

Denver Water Administration Building
1600 West 12th Avenue
Denver, CO
Board Room, Third Floor

Wednesday, August 24, 2016 9:00 a.m.

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. Tabulation of Bids for Water Main Break – Emergency Water Damage Clean Up Services – Contract 16755A
2. Tabulation of Proposals for Lone Tree and 64th Avenue Pump Station Flowmeter Improvements – Contract 16735A
3. Tabulation of Proposals for the Marston Forebay South Embankment Seepage Collection and Drainage System – Contract 16803A
4. Tabulation of Proposals for the Marston and Moffat Treatment Plants Chlorine Scrubber Modifications – Contract 16685A
5. Agreement for Onsite Construction Inspection Services for Stronia Springs Dam Emergency Reservoir Drainage System (ERDS) Rehabilitation Agreement – Contract 16253B

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6. Tabulation of Proposals for Downstream Reservoir Water Storage Project (DRWSP) North Complex Electrical, Instrumentation, and Control Project – Contract 16712A
7. Agreement with Carollo Engineers, Inc. for North System Renewal Water Treatment Plant Project Design Package #3 – electrical, Instrumentation & Control Systems – Contract 16851A
8. Amendment No. 2 with Great Lakes Environmental & Infrastructure LLC for Lupton Lakes Groundwater Cutoff Walls – Contract 16402A

III. POLICY MATTERS

- | | | |
|--|--------------|------------|
| A. OCR | Jeremy Ross | 20 minutes |
| B. External Auditor Update on ORCA Go Live | Jean Bushong | 5 minutes |

IV. EXECUTIVE UPDATE

- A. CEO Update
- B. CFO Update
 1. Monthly Financial Update
- C. Operations Update

V. BRIEFING PAPERS & REPORTS

- A. Briefing Paper
 1. WISE Partnership
- B. Report

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: August 24, 2016

Board Item: II-A-1

Tabulation of Bids for Water Main Break – Emergency Water Damage Cleanup Contract # 16755A

Action by Consent

Individual Action

Summary:

As a matter of policy and as a service to our customers, the Denver Water Board has adopted a main break policy to assist property owners and tenants. Under the policy, Denver Water assists with on-site cleanup and will pay a limited amount for damage to real or personal property caused by a main break. The policy applies to owners or tenants, but not to insurance companies seeking reimbursement for claims paid to their insured.

This service was last bid in 2014, and was awarded to three companies, COCAT, LLC, Restoration Logistics, Inc. and Our 2 Boys LLC dba Property Assurance, a certified MBE. Unfortunately, Property Assurance terminated their contract with us due to their lack of resources to do the work.

Budget Information:

The total amount of this contract is \$650,350 and the term of the contract is September 1, 2016 to August 31, 2019. Funds for this service/contract will come from the 2016 budget for Safety, which has sufficient funds to pay the \$72,261 estimated to be needed in 2016. The remaining \$578,089 will be budgeted in years 2017, 2018 & 2019.

Selection of Business Partner:

In July 2016, Denver Water issued a Request for Proposal (RFP) for emergency water damage cleanup services via the Denver Water public website, Rocky Mountain E-Purchasing System (Bidnet), and direct e-mail to the SBE/M/WBE chambers e-mail list. Denver Water received nine proposals. Of the nine companies submitting proposals, this included one MBE and one WBE.

Emergency water damage cleanup services is a covered spend category under Denver Water's Covered Goods and Services MWBE program. The supplier selection was based on experience, ability and capacity to respond to emergency requests, references, and pricing.

S/MWBE Information:

The MWBE Covered Goods and Services 2016 target is 5% and the Small Business Enterprise target is 12%. Restoration Logistics is a Small Business Enterprise and 100% of this award will support the SBE 2016 target.

Recommendation:

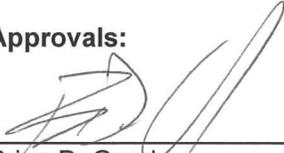
It is recommended that the Board approve Contract 16755A with Restoration Logistics, Inc., for emergency water damage cleanup services for the contract period September 1, 2016 to August 31, 2019 for a total contract amount not to exceed \$650,350.

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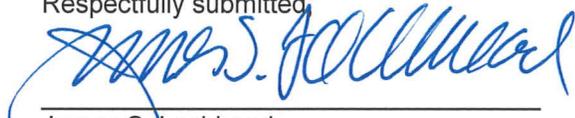


Approvals:



Brian D. Good
Chief Administrative Officer

Respectfully submitted,



James S. Lochhead
CEO/Manager



Angela Bricmont
Chief Financial Officer

DENVER BOARD OF WATER COMMISSIONERS

Meeting Date: August 24, 2016

Board Item: II-A-2

Tabulation of Proposals for Lone Tree and 64th Avenue Pump Station Flowmeter Improvements Contract 16735A

Action by Consent

Individual Action

Summary:

On August 9, 2016, proposals were received for the Lone Tree and 64th Avenue Pump Station Flowmeter Improvements project. The flowmeters at each pump station are inadequate and do not provide the required accuracy for typical day-to-day operations. New magnetic flowmeters will be installed that provide the level of accuracy needed to track water flow and provide additional uses with metrics such as energy usage (wire to water), predictive and preventative maintenance, and leak monitoring. The flowmeters installed on Lone Tree variable frequency drives will also provide necessary feedback to calculate pump speed to optimize system and help improve efficiency. The contract includes providing all necessary labor, equipment, and materials to install new flowmeters (magmeters) for all three 64th Avenue Pump Station pumps and all six Lone Tree Pump Station pumps.

Budget Information:

The project is scheduled through March 2017. The 2016 Capital Improvement Plan for the Lone Tree and 64th Avenue Pump Station Flowmeter Improvements Business Unit includes sufficient funds for the estimated 2016 expenditures. A portion of the contract will be paid in 2017 and will be budgeted for the 2017 Capital Improvement Plan.

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 Invitation to Proposers on the QuestCDN platform. Three of the four General Contractors submitted proposals. Aslan Construction, Inc. was deemed the most qualified proposer which includes a price of \$381,000.

S/MWBE Information:

The Minority and Women Business Enterprise (MWBE) goal established for this construction project is 3% participation. Aslan Construction, Inc. achieved 3.15% MWBE participation

Recommendation:

It is recommended that the Board approve Contract 16735A with Aslan Construction, Inc. for Lone Tree and 64th Avenue Pump Station Flowmeter Improvements for the contract period August 24, 2016 to March 17, 2017 for a total contract amount not to exceed \$381,000.

Approvals:


Robert J. Mahoney
Chief Engineering Officer

Respectfully submitted,


James S. Lochhead
CEO/Manager


Angela Brimont
Chief Finance Officer

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DENVER BOARD OF WATER COMMISSIONERS

Meeting Date: August 24, 2016

Board Item: II-A-3

Tabulation of Proposals for the Marston Forebay South Embankment Seepage Collection and Drainage System Contract 16803A

Action by Consent

Individual Action

Summary:

On August 9, 2016, proposals were received for the Marston Forebay South Embankment Seepage Collection and Drainage System. The South Embankment of the Marston Forebay was constructed in the early 1900s and has undergone several repairs to address seepage issues. Late fall 2015, it was discovered that seepage water was collecting on the surface downstream of the dam, which triggered an emergency evaluation by geotechnical experts. The resulting report concluded that the existing seepage collection system is not functioning properly and does not meet current design standards. The new toe drain will address seepage issues and is designed in accordance with the Colorado State Engineer's Office rules and regulations. The contract includes providing all necessary labor, equipment, and materials to enclose the existing drainage ditch and install a new toe drain system.

Budget Information:

The total amount of this contract is \$675,000, and all work will be completed in 2016. The System Managers approved prioritization of this emergency work to update the seepage collection system to improve dam stability, revising the 2016 Capital Improvement Plan forecast to reflect necessary costs for the Marston Forebay South Embankment Seepage Collection and Drainage System Business Unit.

Selection of Business Partner:

Denver Water solicited proposals from Contractors on the Prequalified Contractors List under the Earthworks, GC-Heavy Civil, and Pipelines disciplines. This Contract was a restricted proposal process using Invitation to Proposers on the QuestCDN platform. Five General Contractors were chosen to propose on the work and four of the Contractors submitted proposals. T. Lowell Construction, Inc. was deemed the most qualified proposer which includes a price of \$675,000.

S/MWBE Information:

There was a 5% Minority Women Business Enterprise (MWBE) participation goal required for the construction portion of the project. T. Lowell Construction, Inc. has achieved a goal of 7.29%.

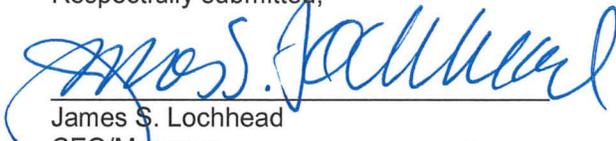
Recommendation:

It is recommended that the Board approve Contract 16803A with T. Lowell Construction, Inc. for the Marston Forebay South Embankment Seepage Collection and Drainage System for the contract period August 24, 2016 to December 16, 2016 for a total contract amount not to exceed \$675,000.

Approvals:


Robert J. Mahoney
Chief Engineering Officer

Respectfully submitted,


James S. Lochhead
CEO/Manager


Angela Bricmont
Chief Finance Officer

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DENVER BOARD OF WATER COMMISSIONERS

Meeting Date: August 24, 2016

Board Item: II-A-4

Tabulation of Proposals for the Marston and Moffat Treatment Plants Chlorine Scrubber Modifications Contract 16685A

Action by Consent

Individual Action

Summary:

Denver Water uses chlorine gas at each of its treatment plants. As part of the water disinfection process, chemical scrubbers are required to provide a safe working environment. The existing scrubbers used at the Marston and Moffat Treatment Plants were installed in the late 1990s and are reaching the end of their useful life. Existing scrubber equipment and technology is being replaced with alternative equipment and technology that is safer for Denver Water employees and the public. The new equipment is estimated to have a service life of approximately 20 years.

Budget Information:

Work begins in 2016 and will be completed in 2017. The 2016 Capital Improvement Plan for the Marston and Moffat Chlorine Scrubber Modifications Business Units includes sufficient funds for the estimated \$293,000 for the 2016 estimated expenditures. The remaining \$230,000 will be budgeted in 2017.

Selection of Business Partner:

Denver Water solicited proposals from two interested contractors on the Security Prequalification Contractor List under the Water Treatment and Pump Stations discipline. This Contract was a restricted proposal process using Instruction to Proposers on the QuestCDN platform. On July 26, 2016, proposals were received from the two prequalified General Contractors. Garney Companies, Inc. was deemed the most qualified proposer which includes a price of \$523,000.

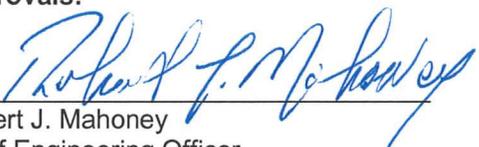
S/MWBE Information:

Due to the specialized nature of the work, no Minority and Women Business Enterprise (MWBE) goal was established for the project.

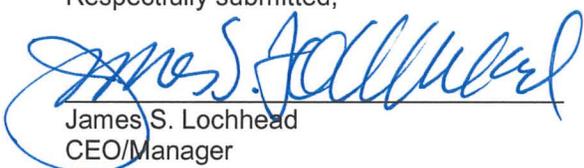
Recommendation:

It is recommended that the Board approve Contract 16685A with Garney Companies, Inc. for the Marston and Moffat Treatment Plants Chlorine Scrubber Modifications for the contract period of August 24, 2016 through May 19, 2017 for a total contract amount not to exceed \$523,000.

Approvals:


Robert J. Mahoney
Chief Engineering Officer

Respectfully submitted,


James S. Lochhead
CEO/Manager


Angela Bricmont
Chief Finance Officer

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DENVER BOARD OF WATER COMMISSIONERS

Meeting Date: August 24, 2016

Board Item: II-A-5

Agreement for Onsite Construction Inspection Services for Strontia Springs Dam Emergency Reservoir Drainage System (ERDS) Rehabilitation Agreement 16253B

Action by Consent

Individual Action

Summary:

The Emergency Reservoir Drainage System (ERDS) at Strontia Springs Dam currently is not functional and there is heavy sediment accumulation above the inlet. The ERDS is the lowest outlet for the reservoir and is comprised of a 4-foot by 4-foot steel-lined channel that passes through the dam, two 4-foot by 4-foot bonneted slide gates and one 42-inch butterfly valve on the hydro turbine inlet. Complete refurbishment of this system is needed in order to restore its full functionality for dam safety and facility operations. The ERDS is used to flush sediment that accumulates on the bottom of the reservoir and to allow complete drainage of the reservoir if needed. On March 9, 2016 the Board approved the use of funds to proceed with rehabilitation of the ERDS. A substantial portion of this work will be completed by divers working on and near the upstream face of the dam. The project team is recommending supplementing our Construction Inspection staff for this highly specialized emergency work and to assist with covering the extended hours and weekends that will be required once the underwater work begins.

Budget Information:

All work will be completed in 2016. The 2016 Capital Improvement Plan for the Strontia Springs Dam ERDS Rehabilitation Business Unit includes sufficient funds for the estimated 2016 expenditures.

Selection of Business Partner:

Due to the unique and specialized nature of this work, Denver Water solicited Infrastructure Marine Consultants, LLC from the On-Call General Engineering Services List to submit an RFP for this work. The proposal submitted was evaluated based on the experience of the firm and the designated personnel proposed for work of a similar nature, availability of designated personnel, and the cost of the proposed services. Infrastructure Marine was found to meet the criteria required to perform the needed services.

S/MWBE Information:

No Minority and Women Business Enterprise (MWBE) goal was established for this Agreement due to the specialized inspection requirements.

Recommendation:

It is recommended that the Board approve Agreement 16253B with Infrastructure Marine Consultants, LLC for construction inspection services for the contract period August 10, 2016 to December 31, 2016 for a total contract amount not to exceed 128,828.50.

Approvals:


Robert J. Mahoney
Chief Engineering Officer

Respectfully submitted,


James S. Lochhead
CEO/Manager


Angela Bricmont
Chief Finance Officer

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DENVER BOARD OF WATER COMMISSIONERS

Meeting Date: August 24, 2016

Board Item: II-A-6

Tabulation of Proposals for Downstream Reservoir Water Storage Project (DRWSP) North Complex Electrical, Instrumentation, and Control Project Contract 16712A

Action by Consent

Individual Action

Summary:

The DRWSP North Complex contains five separate reservoirs: Hazeltine, Howe-Haller A, Howe-Haller B, Dunes, and Tanabe. This Project includes providing the electrical power, communications, SCADA, instrumentation and controls, heating, ventilation and mechanical equipment, pre-cast building structural, and civil equipment and appurtenances necessary to operate valves, gates, sumps, lighting, hydraulic power units, security access gates, security cameras, water quality improvement equipment, prevent nuisance water discharges, and provide reservoir and flume elevation measurement. The Work will enable Denver Water to operate the Complex by gravity and provide water to the South Platte River to satisfy Intergovernmental Agreement requirements with South Adams County Water and Sanitation District.

Budget Information:

Work begins in 2016 and will be completed in 2017. The total amount of this contract is \$6,369,400 submitted by Design/Build Team of Burns & McDonnell Engineering Company, Inc. and Sturgeon Electric Company, Inc. Funds for this contract will come from the 2016 and 2017 budgets for the DRWSP North Complex Electrical, Instrumentation, and Control Business Unit, which has sufficient funds to pay the \$650,000 estimated to be needed in 2016. The remaining \$5,719,400 will be budgeted in 2017. A project budget adjustment for the draft 2017 Capital Budget in the amount of \$1,719,400 will be incorporated by the System Managers.

Selection of Business Partner:

Requests for Statements of Qualification (RFQ) were sent to seven engineering and contracting firms, requesting them to team up as a Design/Build firm and propose on this Project. These seven firms were encouraged to look outside of this group to find and form a Design/Build partnership and to submit an RFQ. Three Design/Build teams submitted statements of qualifications and were reviewed and scored by a team of Denver Water evaluators in accordance with Quality Based Selection (QBS) criteria listed in the RFQ. Two Design/Build firms were subsequently selected to Propose on the Project. One responsive Proposal from the Design/Build Team of Burns & McDonnell Engineering Company, Inc. and Sturgeon Electric Company, Inc. was received on August 9, 2016 that was reviewed and scored based upon QBS criteria in the Proposal.

S/MWBE Information:

The Minority and Women Business Enterprise (MWBE) goal established for this construction project is 3% participation. Burns & McDonnell Engineering Company, Inc. and Sturgeon Electric Company, Inc. achieved 2.46% MWBE participation which was deemed acceptable based on scope revisions during contract negotiation.

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Recommendation:

It is recommended that the Board approve Contract 16712A with Burns & McDonnell Engineering Company, Inc. for Design/Build Services for the DRWSP North Complex Electrical, Instrumentation, and Control Project for the contract period August 24, 2016 through September 27, 2017 for a total contract amount not to exceed \$6,369,400.

Approvals:



Robert J. Mahoney
Chief Engineering Officer

Respectfully submitted,



James S. Lochhead
CEO/Manager



Angela Bricmont
Chief Finance Officer

DENVER BOARD OF WATER COMMISSIONERS

Meeting Date: August 24, 2016

Board Item: II-A-7

Agreement with Carollo Engineers, Inc. for North System Renewal Water Treatment Plant (NSRWTP) Design Package #3 –Electrical, Instrumentation & Control Systems Contract 16851A



Action by Consent

Action

Information

Summary:

The NSRWTP is a new 150 million gallons per day (MGD) facility to be constructed on Denver Water’s (DW’s) Ralston Reservoir property north of Golden on Colorado State Highway 93. DW is engaging a Design Team to jointly execute the design of the NSRWTP. The Design Team’s responsibilities are selectively scoped and contracted in specific Design Packages (DPs) #1-7. The DPs and general scope of work are outlined below.

- DP #1 – Site and Civil Improvements
- DP #2 – Treatment Process Systems and Structures
- **DP #3 – Electrical, Instrumentation & Control Systems**
- DP #4 – Ancillary Treatment Process Systems and Structures
- DP #5 – Architectural and Building Systems
- DP #6 – Post-Tensioned Water Storage Tanks
- DP #7 – Moffat Facility Improvements

The project will be completed using a step-wise phasing approach, whereby DP contracts are only executed for specific tasks with the option to extend using six (6) tasks in order to make decisions and obtain approvals before proceeding to subsequent tasks.

NSRWTP Project Delivery Tasks	
Major Tasks	Current Schedule
Task 1: Mobilization of Owner’s Rep	Complete
Task 2: Design Phase Service Procurement (Design Team and CMAR)	In-progress
Task 3: Preliminary Design (0 to 20% completion) Board Workshop at 20% Design Milestone	8/2016 – 3/2017
Task 4: Final Design (20 to 100% completion through bidding) Finalize Project Budget at 30% Design Milestone	3/2017 – 2018-2021 (varies)
Task 5: Construction	2018 – 2023
Task 6: Transfer of Facility Ownership	2023

DP #3 Consultant will be responsible for the electrical, instrumentation and controls, including all electrical supply and distribution, networking, instrumentation, building and process system controls, communication and security during the preliminary design phase services for the NSRWTP.

DW has negotiated the scope and fee for DP #3 through a 20-percent level of design and will continue in a phased contract approach for future design milestones, based on the project schedule and performance. Each subsequent phase will be brought to the Board for consideration and approval.

Budget Information:

The 2016-2017 Capital Improvement Plan for the NSRWTP Business Unit includes sufficient funds for execution of NSRWTP DP #3 preliminary design phase scope of services. The current capital cost estimate for the NSRWTP is \$400M with a 30% contingency. The current 2016 budget is \$1.5M, however, based on updated projections

and finalization of project delivery approach, the System Managers have increased the 2016 budget to \$6M to sufficiently cover the expected DP #1-6 contracts. The project estimate will be refined as the design progresses and a formal approval of the project budget will be requested of the Board at the 30% Design Milestone.

Selection of Business Partner:

On May 17, 2016, DW posted a formal Request for Proposals (RFP) to denverwater.org, the Daily Construction Journal and a direct email was sent to over 500 firms from DW's engineering contact list notifying potential proposers of the RFP. A mandatory pre-proposal meeting was held at the Denver Police Protection Agency Conference Room on May 26, 2016, thirty nine firms (39) attended. A single proposal was received and reviewed by a team of Engineering and Operations and a quality-based selection was made and documented. DW evaluated the proposal to ensure the approach and rates are appropriate for the scope of the work. Final negotiations were conducted to establish labor rates and total fee within the projected estimates for the entire project.

The negotiated fee with the lowest (only) proposer and most qualified firm is \$1,798,675 which includes \$117,670 in contingency which will require Project Leadership Team approval prior to starting any contingency-based work. Preliminary design scope of services is expected to last 7 months, with an anticipated completion date of March 2017.

S/MWBE Information:

The MWBE goal for DP #3 for Preliminary and Final Design combined is 4-8%, this goal must be achieved through the total design of the project and will vary during different design phases. For preliminary design, a 5% participation was achieved.

Recommendation:

It is recommended that the Board approve Contract 16851A with Carollo Engineers, Inc. for NSRWTP Design Package #3 – Electrical, Instrumentation & Control Systems, Preliminary Design Phase Services for the contract period from August 24, 2016 through March 31, 2017 for a total contract amount not to exceed \$1,798,675.

Approvals:

Respectfully submitted,


Robert J. Mahoney
Chief Engineering Officer


James S. Lochhead
CEO/Manager


Thomas J. Roode
Chief Operations Maintenance Officer


Angela Brimont
Chief Finance Officer

DENVER BOARD OF WATER COMMISSIONERS

Meeting Date: August 24, 2016

Board Item: II-A-8

Amendment No. 2 with Great Lakes Environmental & Infrastructure LLC for Lupton Lakes Groundwater Cutoff Walls Contract 16402A

Action by Consent

Individual Action

Summary:

Contract 16402A with Great Lakes Environmental & Infrastructure LLC (formerly Magnus Pacific, LLC) was awarded for Design-Build services for the Lupton Lakes Groundwater Cutoff Walls project. The Lupton Lakes complex is one of three downstream reservoir complexes in Denver Water's Downstream Reservoir Water Storage Project. Mining dewatering in the active open-pit sand and gravel mines (gravel pits) at the complex has depleted the groundwater table which is impacting adjacent groundwater wells. Denver Water is responsible for mitigation of the depleted groundwater and a cutoff wall is being installed to restore the groundwater table and allow for conversion of the gravel pits into surface water reservoirs.

During design of the cutoff wall, new information was identified as a result of ongoing negotiations with Anadarko Petroleum that requires the alignment of the cutoff wall to shift into a previously mined area adjacent to the Anadarko's Oil and Gas Operations Area (OGO), which will in turn require slope stabilization for protection of the cutoff wall. Additional design services for slope stabilization and construction of a portion of the stabilized slopes in the North Cell of the complex are planned to be moved into the 2016 season from the previously planned 2017-2018 window. The required slope stabilization allows for completion of the groundwater cutoff wall, prevents further groundwater impacts to adjacent properties, provides engineering and design efficiency, and eliminates rework of the slopes adjacent to the OGO.

Budget Information:

Work begins in 2016 and will be completed in 2017. The 2016 Capital Improvement Plan for the Lupton Lakes Development Business Unit includes sufficient funds for the estimated 2016 expenditures. A portion of the contract will be paid in 2017 and will be budgeted for in the 2017 Capital Improvement Plan.

S/MWBE Information:

The Minority and Women Business Enterprise (MWBE) goal established for this design-build construction project is 5% participation and Great Lakes Environmental & Infrastructure LLC achieved 8.01% participation. However, the MWBE participation is reduced to 6.41% with the additional work in Amendment No. 2 because none of the additional work will be performed by MWBE firms on the project team (Bentonite Supplier, Fencing, Erosion Control, and Trucking).

Recommendation:

It is recommended that the Board approve the Second Amendment to Contract 16402A with Great Lakes Environmental & Infrastructure LLC for slope stabilization design and construction for an addition of \$885,350 for a total amended contract amount not to exceed \$4,870,305.

Approvals:


Robert J. Mahoney
Chief Engineering Officer


Angela Brighmont
Chief Finance Officer

Respectfully submitted,


James S. Lochhead
CEO/Manager