

Non-Code Ordinance

By: Public Works Department
Introduced: October 10, 2022
Public Hearing: October 24, 2022
Adopted: October 24, 2022

Yes: Brown, Graham, Johnson, Rubeo, Sullivan-Leonard, Velock
No: None
Absent: None

**City of Wasilla
Ordinance Serial No. 22-34**

An Ordinance Of The Wasilla City Council Amending The Fiscal Year 2023 Budget By Appropriating \$853,150 From The Water Fund, Fund Balance, For Repairs To The Spruce And East Susitna Water Towers Resulting From The January 2022 Windstorm.

Section 1. Classification. This is a non-code ordinance.

Section 2. Purpose. To appropriate funding from the water fund, fund balance for repairs to the Spruce and East Susitna reservoirs due to the January 2022 windstorm.

Section 3. Appropriation of Funds. The funds are appropriated to the following:

Reservoir Repairs	320-4369-436.45-70	\$853,150
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Section 4. Source of Funds.

Water Fund, Fund Balance	320-0000-253.20-00	\$853,150
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Section 5. Effective Date. This ordinance shall take effect upon adoption.

ADOPTED by the Wasilla City Council October 24, 2022.



Glenda D. Ledford, Mayor

ATTEST:



Jamie Newman, MMC, City Clerk

[SEAL]

**City of Wasilla
Legislative Staff Report
Ordinance Serial No. 22-34
(Non-Code Ordinance)**

Amending The Fiscal Year 2023 Budget By Appropriating \$853,150 From The Water Fund, Fund Balance For Repairs To The Spruce And East Susitna Water Towers Resulting From The January 2022 Windstorm.

Originator: Robert L Walden, PE; Acting Director of Public Works
Date: 9/27/2022

Agenda of: 10/10/2022

Route to:	Department Head	Signature	Date
X	Public Works Director	<i>Robert L Walden</i>	9/28/22
X	Finance Director	<i>James Hill</i>	9/28/2022
X	Deputy Administrator	<i>Michelle Lyman</i>	9/28/22
X	City Clerk	<i>Diana Stankovic, Deputy Clerk</i>	09/28/2022
X	Mayor	<i>Blenda Redford</i>	9/28/22

Fiscal Impact: yes or no

Funds Available: yes or no

Account name/number:

Construction Svs/Reservoir Repairs	320-4369-436.45-70	\$853,150.00
Water Fund, Fund Balance	320-0000-253.20-00	<u>\$853,150.00</u>
		Total: \$853,150.00

Attachments: Ordinance Serial No. 22-34 (1 page)
HDL Engineering Consultant's estimate for scope and bid prep work (5 pages)
HDL Engineering Consultant's estimate for repairs(1 page)
Big Dipper Construction invoice (1 page)

Summary Statement: In January 2022, the Matanuska-Susitna Borough (MSB) suffered a severe windstorm which received a disaster declaration by the Federal Emergency Management Agency (FEMA). The windstorm damaged the City's Spruce and East Susitna water towers. Required repairs include the installation of a completely new insulation system and siding to the Spruce reservoir along with replacement of roof insulation at the East Susitna Reservoir. The preliminary engineer's estimated cost to repair the reservoirs, as provided by HDL Engineering Consultants, is \$853,150.

Initial costs for this project have already been incurred. These costs include cleanup and debris removal which was completed in September 2022 by Big Dipper Construction under the City's existing maintenance contract. The cost was \$46,152. HDL Engineering Consultants prepared scope of work specifications and bidding documents, in accordance with the FEMA requirements. The cost of this work was \$22,828. The total initial costs of \$68,980 were absorbed within the original FY2023 funding and no additional appropriation is being requested for these expenditures.

Upon approval of funding, the City will release a request for proposal in accordance with the Wasilla Municipal Code 5.08. The City is seeking reimbursement of these costs as either a claim under its property insurance policy or as an eligible expenditure under the FEMA grant program.

Proposed Action: Introduce and set the Ordinance for public hearing.

July 12, 2022

Robert Walden, PE
Acting Public Works Director
City of Wasilla
290 East Hering Avenue
Wasilla, AK 99654

Civil
Engineering

Subject: Proposal for Engineering Services
Spruce and East Susitna Reservoir Insulation Repairs

Geotechnical
Engineering

HDL Engineering Consultants, LLC (HDL) is pleased to provide this proposal to the City of Wasilla (City or Wasilla) to prepare bidding and construction documents to repair insulation damage to the Spruce and East Susitna Water Reservoirs resulting from the January 2022 wind storm.

Transportation
Engineering

Background

Aviation
Engineering

On Saturday, January 1 and Sunday, January 2, 2022, a severe windstorm struck the Matanuska-Susitna Borough (MSB). Severe damage was reported throughout the MSB core area with thousands losing power, windows being shattered, and even small planes being flipped by the wind. According to the National Weather Service, a gust of 91 mph was reported on January 2, 2022; although gusts in other areas of the affected area were likely even higher. As a result of this severe windstorm, several water reservoirs in the area including Wasilla's Spruce and East Susitna reservoirs received damage to their insulation systems.

W/WW
Engineering

Environmental
Services

Scope of Services

Surveying &
Mapping

We understand that repairs will include replacement of the roof insulation at East Susitna and installation of a completely new insulation system for Spruce. Designs will be for a pre-engineered insulation package with a tension band attachment system with roof attachments similar to what was previously installed at East Susitna. We have teamed with BBFM Engineers, Inc. for assistance with structural designs and specification of insulation systems. We anticipate the following general scope of work for the project:

Construction
Administration

Material
Testing

- Review record drawings of the existing tanks and perform a site visit to both tanks to assess methods for attachment of roof insulation.
- Compile a set of bidding and construction documents suitable for public bidding of the proposed work. We anticipate providing contract documents based on Wasilla/HDL's standard modifications to the Municipality of Anchorage Standard Specifications (MASS) along with a performance specification for the insulation system. Other

contractual documents will include basic insulation system attachment details and record drawings for the existing tanks. We do not anticipate compiling a complete set of drawings for the project.

- Provide assistance during bidding consisting of: responding to questions from bidders, attending a pre-bid conference, issuing written addendums, tabulating bids and checking proposal for completeness, reviewing bonding and insurance submittals, and providing a recommendation of award.

Details of BBFM's proposed scope of work are included in their attached scope and cost proposal.

Assumptions

1. Alaska Department of Environmental Conservation (ADEC) Approval to Construct is not required.
2. Design of the actual insulation system is not included. We intend to utilize an "off the shelf" insulation package as manufactured by a variety of different companies. We will select an insulation system to serve as the basis of design for the project and will provide a performance based specification for the supplier/installer to meet.
3. Modification/repair of reservoir structural components and/or coatings is not required nor is identification or assessment of these areas. Roof insulation systems may require the addition of posts or clips to the tank shell, in which case repair of coatings damaged through the installation process will be specified.
4. Wasilla will provide construction contract preparation and solicit quotations for contractors. HDL will provide limited bid phase services as detailed above.
5. Services during construction are not included but will be added by amendment after a contractor has been selected.
6. Professional services beyond this scope will be performed upon written authorization of Wasilla and will be compensated for on a Time and Expenses basis in accordance with HDL's published hourly rate schedule.

*Proposal for Engineering Services – Spruce/E. Su.. Reservoir Insul. Repairs
July 12, 2022*

Schedule

We anticipate completing the design scope within six weeks of receipt of notice to proceed.

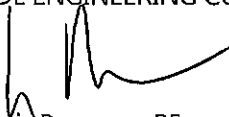
Cost Proposal

We propose to provide the aforementioned services on a time and expenses basis at our published hourly labor rates and standard 10% mark-up on subcontracts and reimbursable expenses for a cost not to exceed **\$22,828** as detailed on the attached worksheet.

We look forward to working with you on this project. If you have any questions, you can contact me at (907) 746-5230.

Sincerely,

HDL ENGINEERING CONSULTANTS, LLC



Chris Bowman, PE

Senior Civil Engineer

e: cbowman@HDLalaska.com | o: 907.746.5230

Attach: Cost Worksheet (1 Page)
BBFM Fee Proposal (1 Page)

CC: David Lundin, PE, HDL



FEE PROPOSAL WORKSHEET
Engineering Services
Spruce and East Susitna Reservoir Insulation Repairs

TASK	ACTIVITY	QTY	RATE	HDL LABOR*	REIMBURSABLE EXPENSES	SUB-CONTRACTS	SUBTOTAL	TOTAL
1.0	Insulation Repairs							\$21,715
1.1	<u>Project Management, QA/QC</u>						\$805	
	Principal Civil Engineer	2 hrs	@ \$195	\$390				
	Senior Civil Engineer	2 hrs	@ \$160	\$320				
	Accounting	1 hrs	@ \$95	\$95				
1.2	<u>Engineering Site Visit/Record Drawing Review</u>						\$5,195	
	Senior Civil Engineer	6 hrs	@ \$160	\$960				
	Engineering Assistant (Civil)	12 hrs	@ \$115	\$1,380				
	BBFM	1 allow	@ \$2,855			\$2,855		
1.3	<u>Bid Document Preparation</u>						\$13,095	
	Senior Civil Engineer	8 hrs	@ \$160	\$1,280				
	Engineering Assistant (Civil)	40 hrs	@ \$115	\$4,600				
	BBFM	1 allow	@ \$7,215			\$7,215		
1.5	<u>Assistance During Bidding</u>						\$2,620	
	Senior Civil Engineer	4 hrs	@ \$160	\$640				
	Engineering Assistant (Civil)	8 hrs	@ \$115	\$920				
	BBFM	1 allow	@ \$850			\$1,060		
Subtotal				\$10,585	\$0	\$11,130		\$21,715
Markup**					\$0	\$1,113		\$1,113
Total Task 1				\$10,585	\$0	\$12,243	\$0	\$22,828
*also includes those expenses charged without a markup								
**10% for subcontracts, 10% for reimbursable expenses								

Wasilla East Su and Spruce Reservoir Insulation Repairs

CLIENT: HDL Alaska, ATTN: Chris Bowman, PE
 PREPARED BY: Greg Latreille, PE, SE
 DATE: July 8, 2022

BBFM Engineers, Inc.
 Structural Fee Proposal

COMMENTS:

- Time & Materials fee proposal/estimate for investigation and design
- Includes on-site assessment and as-built investigation of two (2) existing reservoir tanks with damage to exterior cladding and insulation from wind event earlier this year.
- It is assumed both sites will be investigated on the same day.
- Design of partial or complete cladding replacement is included. A cladding system will be performance-specified and the tank structures will be modified as required to provide adequate support / tie-off for the new cladding system.
- BBFM will produce construction-ready details for any required modifications to the tank structures.
- BBFM will provide structural performance specifications and loading requirements for the cladding design.
- It is assumed there are no structural issues with the primary steel tank structures that need to be addressed as part of this scope. The site assessment is intended to confirm there is no evidence of any failure, compromise, or vulnerability in the primary tank structures. If such issues are encountered, it will require renegotiation of structural fee to address.
- Complete, holistic structural evaluations of the tank primary structures are not included in this scope.
- Seismic analysis not included
- Special Inspection by others
- Construction Administration services not included but can be added if required on a T&M basis.

TASKS	Senior Principal	Principal	Associate	Sr Project Engineer	Project Engineer	Structural Designer	CAD Tech	Office Manager	Clerical
Design									
Site Field Investigation	0	8	0	0	0	0	0	0	0
Findings Report	0	6	0	0	0	0	0	0	0
Design Loads	0	2	0	0	0	0	0	0	0
Design / Detailing	0	16	0	0	0	0	8	0	0
Specifications	0	6	0	0	0	0	0	0	0
Meetings/Coordination	0	4	0	0	0	0	0	0	0
Quality Control	1	0	0	0	0	0	0	0	0
Permit/Govt Review	0	2	0	0	0	0	0	0	0
Bidding Assistance	0	4	0	0	0	0	2	0	0
TOTAL HOURS	1	48	0	0	0	0	10	0	0
RATE	\$245.00	\$195.00	\$170.00	\$145.00	\$135.00	\$125.00	\$140.00	\$75.00	\$175.00
HOURS * RATE	\$245	\$9,360	\$0	\$0	\$0	\$0	\$1,400	\$0	\$0
TOTAL LABOR	\$11,005								
EXPENSES									
Food	\$35								
Lodging	\$0								
Auto	\$90								
Parking	\$0								
Reproduction	\$0								
Delivery	\$0								
TOTAL EXPENSES	\$125								
TOTAL FEE	\$11,130								

Wasilla Spruce-E Su Reservoir Repairs
Preliminary Engineer's Estimate
Summary

WORK DESCRIPTION	Cost
<u>General Conditions</u>	
Mobilization and Demobilization (5% of Total)	\$ 31,250.00
<u>Spruce</u>	
Insulation Materials	\$ 225,000
Roof Modification Materials	\$ 50,000
Labor	\$ 250,000
<u>East Su</u>	
Materials	\$ 50,000
Labor	\$ 50,000
Contingency @ 30%	\$ 196,900
Total	\$ 853,150



Big Dipper Construction, Inc
 PO Box 874550
 Wasilla AK 99687
 (907) 376-8341
 Fax: (907)373-7263
 Email: minnicks@matnet.com

License: 95816

Invoice

Invoice#: 2207/01

Date: 09/22/2022

Billed To: City of Wasilla
 290 E Hering Ave
 Wasilla AK 99654-7091

Project:
 SPRUCE WATER RESERVOIR REPAIRS

Billing Period Aug 2022 - Sept 2022

Due Date: 10/22/2022

Terms: 30DY

Purchase Order#
 23776

Description	QTY	Price	Amount
SPRUCE WATER RESERVOIR REPAIRS			
Mob/Demob	1.0000	11,400.64	11,400.64
Remove & dispose damage material	1.0000	34,750.95	34,750.95

Notes:

A service charge of 18.00% per annum will be charged on all amounts overdue on regular statement dates.

Thank you for your prompt payment!

Non-Taxable Amount:	46,151.59
Taxable Amount:	0.00
Sales Tax:	0.00
Retention	0.00
Amount Due	46,151.59