



## Legislation Text

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**File #:** 17-0097, **Version:** 1

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**ITEM TITLE:**

Approval of Professional Services Agreement in the Amount of \$88,506 with DOWL for Flood Mitigation Work

**SUBMITTED BY:** Lisa Von Bargaen, CED Director

**FISCAL NOTES:**

Expenditure Required: \$88,506

Unencumbered Balance: \$2,531,238

Funding Source: 310-8060-58000 (Flood Mitigation)

**RECOMMENDATION:**

Approve Professional Services Agreement in the amount of \$88,506 with DOWL for Flood Mitigation Work.

**SUMMARY STATEMENT:**

On February 16<sup>th</sup> the Council and Gravel/Levee/Flood Task Force held a joint work session to go over the 2017 Flood Mitigation Action Plan. The plan includes assessments, gravel extraction plans, design/engineering, bid assistance and construction administration for projects in all three major rivers in Valdez (Mineral Creek, the Valdez Glacier Stream, and the Lowe River).

The program of work needs to be broken into two or three phases to be accomplished this year. Phase I includes the most time-sensitive items which must be finished so actual work can begin before high water this spring. The scope of Phase I is:

Mineral Creek	Gravel Extraction Plan	\$10,428
Glacier Stream	Gravel Extraction Plan	\$26,385
Glacier Stream	Downstream Design	\$26,943
Lowe River	Review Levee Evaluation	\$13,840
Lowe River	Slope Improvement Design	\$10,910
Total		\$88,506

A copy of the proposal from DOWL is attached to this agenda statement. It outlines the detailed components of each task within the scope of work. Please understand the total Action Plan for 2017 requires two to three phases of work. The full scope of work expected to be accomplished this year is outlined in the 2017 Action Plan, discussed at the work session, and attached to this agenda statement for reference.

It is important to understand that Phase two and/or Phase three will come back for council approval in the form of additional contracts or change orders. The City has been working with DOWL on Flood Mitigation and Flood Response for the past two years. DOWL has an in-depth knowledge of flood-related issues in Valdez, and is currently in the process of working on items for the City - mostly related to the Glacier Stream south of the bridge.

A more detailed explanation of each task within Phase I is outlined below:

Mineral Creek      Gravel Evaluation/Extraction Plan      Spring 2017

Utilizing current permit amounts:

- a) Will require some agency coordination
- b) We will develop a gravel extraction plan showing the areas to remove gravel and provide access to those areas
- c) We will prepare a brief memo outlying permit stipulations, extraction areas, methods and travel

Glacier Stream      Gravel Extraction Plan      Spring 2017

Gravel Extraction Plan for South of the Bridge (material to be used for City and/or NRCS projects):

- a) We will work with resource agencies to acquire necessary permits
- b) We will develop a gravel extraction plan showing the areas to remove gravel and access to those areas
- c) We will prepare a brief memo outlining permit stipulations, extraction areas, methods and travel. Report will also include sediment budget analysis used to determine how much gravel, the effects of removal, and recommendations.
- d) NHC will develop a bed material sediment budget for Valdez Glacier stream based on a morphological approach. NHC anticipates that two lines of evidence will form the basis of the budget estimate. First, NHC will estimate the total volume of material eroded from the historic Valdez Glacier outwash fan since formation of the Pro-glacial lake. Because the bed material sediment input from the lake is known to be zero, this provides a long-term average rate of sediment movement. Second, NHC will examine available aerial photos to document more recent bank erosion, providing information to constrain the relationship between more recent/present day sediment transport rates and the long-term average. Supporting data including pebble counts to characterize bed material and ground-based observations of channel and bank conditions would be collected during a visit of NHC staff to Valdez coordinated with other projects on Mineral Stream and the Lowe River. Results of NHCs analysis will be documented in a brief technical memo with supporting maps and graphics. This memo will be used to aid development of the implementation plan to remove sediment downstream from the Richardson Highway Bridge.

Glacier Stream      Downstream Design      Spring 2017

Confirm Finalization of Design for Solution between Bridge & TBD NRCS Project Area, Contract/Bid

Assist, Construction Administration:

- a) We will prepare plans, and quantities for bidding the project
- b) We will work with the agencies to ensure that permits are obtained prior to construction
- c) We will provide bid assistance and CA Services/ oversight during construction

Lowe River                      Review Levee Evaluation                      Summer 2017

Review URS Levee Evaluation; Develop Project Action List for Groins 1 & 2

- a) We will review the previously performed levee evaluation and make recommendations for action at groins 1 and 2

Conduct Engineer's Assessment if gaps in URS Evaluation

- a) We will review the area (site visit that may be in conjunction with another visit) to determine if there are any information gaps or needs to be further evaluated

Lowe River                      Slope Improvement Design                      Summer 2017

Design, Contract/Bid Assist, Construction Administration for Slope Improvements & Armoring to Rick Wade Emergency Groin Construction:

- a) We will prepare plans, and quantities for bidding the project
- b) We will work with the agencies to ensure that permits are obtained prior to construction
- c) We will provide bid assistance and CA Services/ oversight during construction