



## CITY OF KIRKLAND

123 Fifth Avenue, Kirkland, WA 98033 425.587.3000  
www.kirklandwa.gov

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### MEMORANDUM

**To:** Kurt Triplett, City Manager

**From:** Catherine Okamura, P.E., Capital Projects Engineer  
Rod Steitzer, P.E., Capital Projects Manager  
Julie Underwood, Director of Public Works

**Date:** March 4, 2021

**Subject:** NE 120<sup>th</sup> STREET WATER QUALITY TREATMENT—AWARD CONTRACT

### **RECOMMENDATION:**

Staff recommends that the City Council award a construction contract for the NE 120<sup>th</sup> Street Water Quality Treatment Project (Project) to Accord Contractors of Bellevue, Washington, in the amount of \$238,210.48.

By taking action on this staff report during approval of the consent calendar, the City Council is authorizing the award of a construction contract.

### **BACKGROUND DISCUSSION:**

This Project was identified as the fourth of 22 priority projects in the *Totem Lake/Juanita Creek Basin Stormwater Retrofit Conceptual Design* to improve the quality of storm water runoff and reduce sediment prior to discharging to Totem Lake, thereby improving habitat and storm water conveyance capacity. The Project provides treatment for approximately four acres that are developed with residential and commercial uses and the NE 120<sup>th</sup> Street roadway (see Attachment A, Vicinity and Area Map). These land uses are unlikely to redevelop in a way that would require contemporary stormwater controls, which makes this area an ideal location for this kind of public investment.

The Project includes the installation of six water quality structures to provide enhanced water quality treatment for approximately four acres of previously untreated basin area. The proposed water quality structures are Contech StormFilter units which are systems comprised of cartridges filled with media that trap pollutants including sediments, metals, and other common pollutants. Of the four acres, 1.87 acres of them are developed with pollution generating impervious surfaces (PGIS). Runoff treatment and volume reductions from the proposed water quality



*Typical StormFilter in Roadway*

treatment will improve dissolved oxygen levels; remove total suspended solids and metals (such as copper and zinc); and help reduce damaging peak flow conditions and durations from small storm events that contribute to erosion, sedimentation, and impacts to salmonids and other aquatic organisms. This is particularly beneficial to Juanita Creek because it is on the Washington State Department of Ecology’s (DOE’s) list to improve dissolved oxygen and bacteria impairments. These Project improvements will increase Benthic Index of Biotic Integrity (B-IBI) scores in Juanita Creek and improve creek health.



*Typical Canisters in StormFilter*

**FUNDING:**

The Project is funded at \$803,000, which is comprised of a \$553,460 DOE Water Quality Grant (DOE) and \$249,487 local Surface Water Utility funds to cover ineligible expenses. Project funding and anticipated expenses are shown in Table 1, below, and in the Project Budget Report (see Attachment B).

**Table 1: Project Funding and Expenses**

	<b>City</b>	<b>External</b>	<b>Total</b>
<b>Funding</b>	\$249,487	\$553,460	\$802,947
<b>Expenses</b>			
Design and Staff Time	(\$73,649)	(\$135,276)	(\$208,925)
Inspection	(\$29,600)	(\$69,600)	(\$99,200)
Construction	(\$59,552)	(\$178,658)	(\$238,210)
Contingency	(\$86,686)	(\$169,926)	(\$256,612)
Total	(\$249,487)	(\$553,460)	(\$802,947)
<b>Difference</b>	\$0	\$0	\$0

This Project originally was scoped and budgeted based upon certain preliminary assumptions. However, when City staff began to analyze options for optimizing the project and gaining efficiencies—all while staying within the original scope and maintaining DOE’s approval—the City ultimately was able to achieve a design that was estimated to be less than first projected. A favorable bid climate also was a factor. The grant application was based upon the preliminary, higher estimate. Thus, it appears at this point that the Project can be achieved for quite less than originally estimated. While the bid is less than the revised engineer’s estimate, and the non-contingency expenses are less than originally anticipated, staff recommends keeping the funding at the current level and does not recommend amending the Project budget at this time. There may be an opportunity in the future to revise the budget lower; however, more information and experience on how the project progresses are needed before that determination can be made.

With an engineer's estimate of \$242,355.00, the Project was first advertised for contractor bids on January 29, February 4, and then on February 11. Bids were opened on February 18, 2021, with the City receiving eight bids as shown in Table 2, below.

**Table 2: Bid Results**

<b>Contractor</b>	<b>Base Bid Schedule</b>
<b>Accord Contractors</b>	<b>\$238,210.48</b>
<i>Engineer's Estimate</i>	<i>\$242,355.00</i>
Tastad Construction, Inc.	\$247,123.00
NPM Construction	\$251,944.00
OMNI Construction	\$256,859.76
Kamins Construction	\$263,846.50
Redtail	\$275,344.00
Road Construction Northwest, Inc.	\$332,198.75
Razz Contractors	\$447,205.00

During the formation of the Project, staff worked with the design consultant to address several basin needs including limiting peak flows, erosion and sedimentation controls, and containing surface water drainage within the roadway. Additionally, staff worked to address water quality needs to improving the B-IBI. The Project will address these issues. Additionally, there are special reporting and submittal requirements for the Project, including a design report with water quality benefit calculations for DOE's review. The effort for that work is reflected in the design costs, which yield a higher design line item than for a typical surface water improvement.

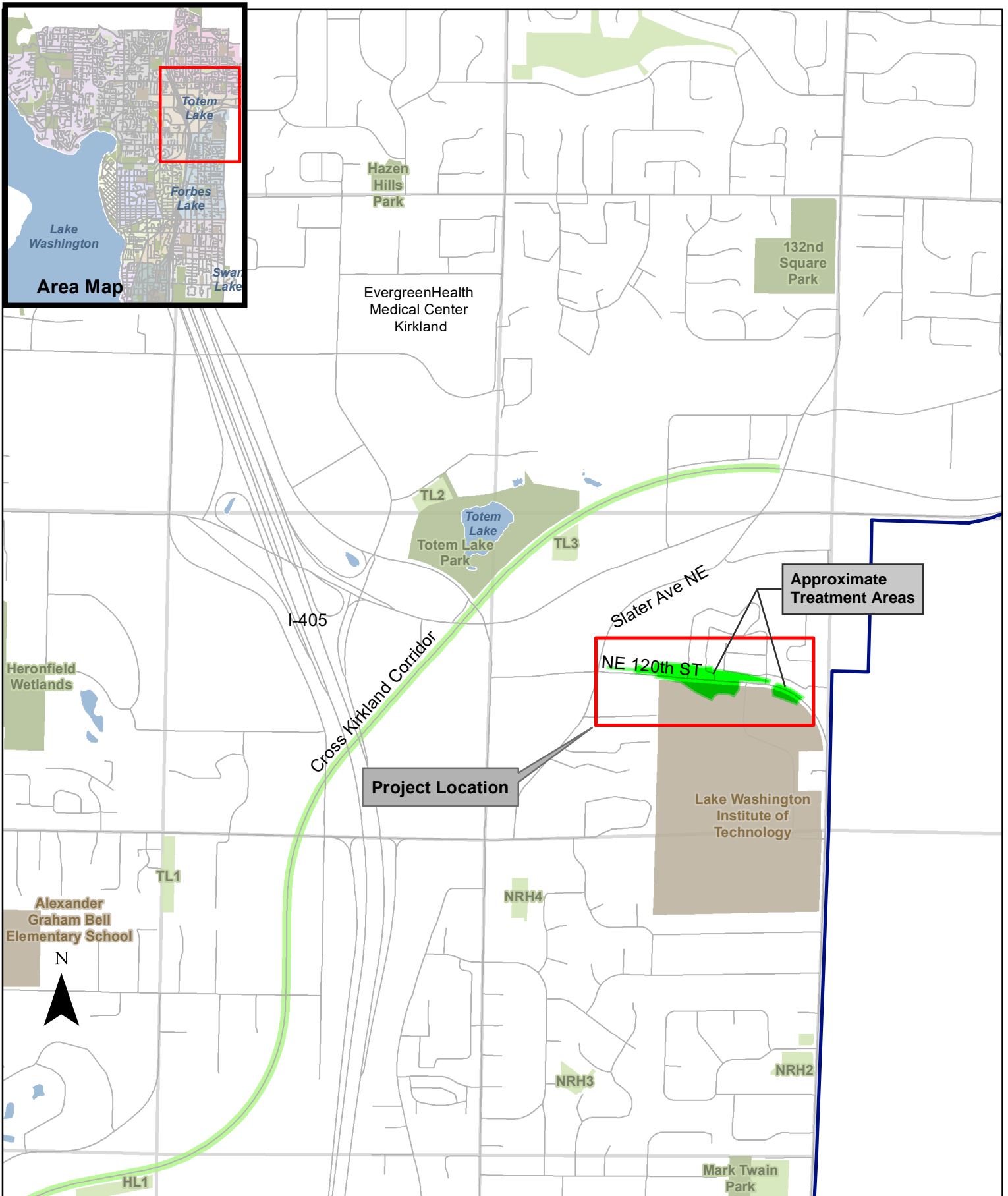
Reference checks for Accord Contractors were satisfactory, and the contractor has a history of successfully completing projects containing similar structural and utility components.

**CONSTRUCTION PHASE:**

The Project has an estimated 45-day construction duration. Were the City Council to award this contract at its March 16 meeting, construction is anticipated to start in May 2021 with an anticipated substantial completion in July 2021.

In advance of construction, staff will send a construction informational mailer directly to nearby residents providing construction timelines and pertinent contact information. In addition, staff will add the Project's information to the [Public Works Projects Website](#), including the construction timeline and staff contact information.

- Attachment A: Vicinity and Area Map
- Attachment B: Project Budget Report



**Project Budget Report**  
**NE 120th St Water Quality Treatment (SDC1250000)**

**Attachment B**

