



EXETER PUBLIC WORKS DEPARTMENT

13 NEWFIELDS ROAD • EXETER, NH • 03833-3792 • (603) 773-6157 • FAX 772-1355

www.exeternh.gov

Memorandum

Date: April 25, 2016
To: Russ Dean – Town Manager
From: Paul Vlasich, PE – Town Engineer

Re: Great Dam Removal Project – Contractor Bid Award Recommendation

The contractor selection process was a lengthy exercise. It started with a Request for Qualifications (RFQ) for dam removal contractors and then proceeded to a bid process with the qualified contractors. The contractor selection tasks and timeline are indicated below:

- Feb. 11, 2016 – RFQ advertised
- Feb. 24, 2016 – A non-mandatory pre-qualification meeting was held.
- Mar. 9, 2016 – Contractor pre-qualification packages were due. Seven contractors submitted.
- Mar. 17, 2016 – The Town obtained the Wetlands Permit for the work.
- Mar. 23, 2016 – Five contractors were qualified for bidding.
- Mar. 25, 2016 – Plans and specifications were finalized and sent to the qualified bidders.
- Mar. 30, 2016 – A mandatory pre-bid meeting was held. Three contractors attended.
- Apr. 12, 2016 – A bid addendum was issued.
- Apr. 18, 2016 – Three bids were received.

The three pre-qualified contractors submitted bid totals as shown below:

	SumCo Eco-	RC&D	Sargent
Base Bid (Dam Removal & Stream Restoration)	\$ 873,900.00	\$ 993,500.00	\$ 1,232,240.00
Base + Alt A (Water Intake)	\$ 954,900.00	\$ 1,167,429.00	\$ 1,317,240.00
Base + Alt A & B (Yr2 - Stream Adjustment)	\$ 962,900.00	\$ 1,192,429.00	\$ 1,342,240.00
Base + Alt A, B & C (Dry Hydrant)	\$ 1,112,350.00	\$ 1,428,154.00	\$ 1,427,240.00

To date, from the **2014 Warrant, Article 8 – Dam Removal and River Restoration** appropriation of \$1,786,758, approximately \$968,980 remains unencumbered. In addition to contractor costs for dam removal there are other expenditures required by April, 2017 due to permit and grant conditions. These extra expenses include: consultant contract administration and inspections already anticipated at a reduced level; fish monitoring station at Pickpocket Dam; photo documentation of the dam to meet Section 106 mitigation stipulations; and base line stream monitoring information for subsequent annual reports. The anticipated total of these first year ancillary costs equate to \$91,240.

The base bid which includes dam removal and stream restoration below Great Bridge plus the anticipated first year required expenditures will essentially deplete all of the remaining funds for the project leaving a balance of approximately \$3,840.

Therefore, the Public Works Department recommends the award of the base bid to SumCo Eco-Contracting, LLC in the amount of \$873,900. See the attached VHB recommendation memo dated April 25, 2016. The Department also suggests performing the work required in the first year.

The Town should explore if an additional \$150,000 can be found through Town monies or additional grants to finance bid alternatives A (water intake modifications), alternative B (second year stream adjustments), remaining Section 106 mitigation stipulations and the remaining three years of stream restoration monitoring. In the meantime, the Town's water supply intake pipes will be able to withdraw enough water from the river except for an extra dry period during the late-summer time low flow periods when a flow reduction may be required. See the VHB memo dated April 25, 2016 re: Pump House Intake.

The dry hydrant installation on Franklin Street (Alt. C) will cost \$154,600 between the contractor and consultant services. The Fire Department has concurred that the high cost of this installation can be excluded. Please see the attached memo.



To: Paul Vlasich, Town of Exeter

Date: April 25, 2016

Memorandum

Project #: 52151.04

From: Jake San Antonio, VHB

Re: Great Dam Removal and Exeter River Restoration
Contractor Award Recommendation

VHB has reviewed the bid forms opened on April 18, 2016 for the Great Dam Removal and Exeter River Restoration Project. The bid forms were structured to include four award scenarios, to allow a tiered approach dependent on available funding. Exeter received a total of three bids for the project as summarized in the attached table. The bid item totals submitted by SumCo Eco-Contracting, LLC of Salem, Massachusetts were the lowest of the bids received for each of the four bid award scenarios.

In order to submit a bid for this project all general contractors were required to be prequalified. As part of the prequalification process, VHB previously reviewed contractor prequalification submittals and provided our recommendations on prequalified contractors in a memorandum dated March 23, 2016. SumCo Eco-Contracting, LLC was one of the prequalified contractors.

Based on SumCo Eco-Contracting, LLC qualifications and being lowest bidder, VHB recommends that the Town of Exeter award SumCo Eco-Contracting, LLC the highest preferred scenario that is within the available funding for the Great Dam Removal and Exeter River Restoration Project.

If you have any questions on the recommendations outlined above, please feel free to contact me.

Great Dam Removal and River Restoration

Bid Due: 4/18/2016

		SumCo Eco-Contracting			RC&D, Inc.			Sargent		
Item #	Description	Qty	Unit	Unit Price	Extended Total	Unit Price	Extended Total	Unit Price	Extended Total	AVG
Addendum 1										
Bid Bond										
105.2	Control of Work	1	U	\$ 20,000.00	\$ 20,000.00	\$ 40,000.00	\$ 40,000.00	\$ 17,500.00	\$ 17,500.00	\$ 25,833
202.11	Dam Removal and Disposal	1	U	\$ 130,000.00	\$ 130,000.00	\$ 250,000.00	\$ 250,000.00	\$ 396,000.00	\$ 396,000.00	\$ 258,667
202.8	Site Staging	1	U	\$ 74,750.00	\$ 74,750.00	\$ 50,000.00	\$ 50,000.00	\$ 110,000.00	\$ 110,000.00	\$ 78,250
207.1	Common Channel Excavation	1500	CY	\$ 26.00	\$ 39,000.00	\$ 75.00	\$ 112,500.00	\$ 15.00	\$ 22,500.00	\$ 39
207.2	Rock Channel Excavation	20	CY	\$ 100.00	\$ 2,000.00	\$ 500.00	\$ 10,000.00	\$ 300.00	\$ 6,000.00	\$ 300
211.11	Vibration Monitoring	1	U	\$ 97,750.00	\$ 97,750.00	\$ 75,000.00	\$ 75,000.00	\$ 20,000.00	\$ 20,000.00	\$ 64,250
503.101	Cofferdam and Water Diversion	1	U	\$ 187,000.00	\$ 187,000.00	\$ 125,000.00	\$ 125,000.00	\$ 300,000.00	\$ 300,000.00	\$ 204,000
572.4	Stone Wall (Reinforced CMU wall)	1	U	\$ 20,000.00	\$ 20,000.00	\$ 15,000.00	\$ 15,000.00	\$ 7,000.00	\$ 7,000.00	\$ 14,000
585.2	Stone Fill, Class B	80	CY	\$ 90.00	\$ 7,200.00	\$ 75.00	\$ 6,000.00	\$ 98.00	\$ 7,840.00	\$ 88
585.25	Stone Fill, (Cobble-Boulder Mix)	1000	CY	\$ 55.00	\$ 55,000.00	\$ 80.00	\$ 80,000.00	\$ 98.00	\$ 98,000.00	\$ 78
587.1	Keyed Stone Fill	380	TN	\$ 140.00	\$ 53,200.00	\$ 125.00	\$ 47,500.00	\$ 80.00	\$ 30,400.00	\$ 115
587.4	Granite Revetment	180	TN	\$ 200.00	\$ 36,000.00	\$ 125.00	\$ 22,500.00	\$ 150.00	\$ 27,000.00	\$ 158
646.51	Turf Establishment	1	U	\$ 58,000.00	\$ 58,000.00	\$ 20,000.00	\$ 20,000.00	\$ 90,000.00	\$ 90,000.00	\$ 56,000
692.1	Mobilization and Demobilization	1	U	\$ 80,000.00	\$ 80,000.00	\$ 125,000.00	\$ 125,000.00	\$ 75,000.00	\$ 75,000.00	\$ 93,333
699	Temp. Erosion & Sediment Control	1	U	\$ 14,000.00	\$ 14,000.00	\$ 15,000.00	\$ 15,000.00	\$ 25,000.00	\$ 25,000.00	\$ 18,000
A	Pump House Modifications	1	U	\$ 81,000.00		\$ 173,929.00		\$ 85,000.00		\$ 113,310
B	Second Mobilization, Grading YR2	1	U	\$ 8,000.00		\$ 25,000.00		\$ 25,000.00		\$ 19,333
C	Dry Hydrant Installation	1	U	\$ 149,450.00		\$ 235,725.00		\$ 85,000.00		\$ 156,725
Scenario 4: Base Bid					\$ 873,900.00		\$ 993,500.00		\$ 1,232,240.00	\$ 1,033,213
Scenario 3: Base + Alt A					\$ 954,900.00		\$ 1,167,429.00		\$ 1,317,240.00	\$ 1,146,523
Scenario 2: Base + Alt A & B					\$ 962,900.00		\$ 1,192,429.00		\$ 1,342,240.00	\$ 1,165,856
Scenario 1: Base + Alt A, B & C					\$ 1,112,350.00		\$ 1,428,154.00		\$ 1,427,240.00	\$ 1,322,581



To: Paul Vlasich, Town of Exeter

Date: April 25, 2016

Memorandum

Project #: 52151.04

From: Jake San Antonio, VHB

Re: Great Dam Removal and Exeter River Restoration
Pump House Intake

The removal of the Great Dam would result in the lowering of water levels within the dam's current impoundment, which may impact the functionality of the Town of Exeter's river intake pump house on the eastern bank of the Exeter River across from Gilman Park. The approved Exeter River Restoration design plans include a riffle crest, to be constructed of large boulders just downstream of the Great Bridge, to provide a constructed hydraulic control to prevent down cutting of the river bed. This riffle crest would be set at an elevation of 15.5-feet NAVD 88, and would help to maintain a minimum water level in the river upstream. It is estimated that once the dam is removed, during the low flow time of the year (September), that river water levels in the vicinity of the pump house would be approximately 16-feet NAVD 88. The current gravity intake pipe has an invert of 14.8-feet NAVD 88. Our calculations indicate that at this water elevation (16-feet), without modifications to the gravity intake, gravity flow into the pump chamber will still meet the current pump intake demand.

The approved dam removal design includes lowering of the gravity intake pipe by approximately two feet. Lowering this intake pipe provides a factor of safety for pump house operation, and was selected based on observations made during a 2009 drawdown where swirling around the intake was observed. Without these modifications, during low flow times (late summer-early fall) of the year there is potential that full pumping capacity will not be achievable. However, the pump house currently has two variable speed pumps, so during the low flow times of the year pump rates could be adjusted to equalize with the gravity intake restriction and still be available for use.

101 Walnut Street
PO Box 9151
Watertown, MA 02472-4026
P 617.924.1770



EXETER FIRE DEPARTMENT

20 COURT STREET, EXETER, NH 03833-2716

Tel 603.773.6131

Fax 603.773.6128

BRIAN D. COMEAU, CHIEF OF DEPARTMENT

April 25, 2015

Paul Vlasich, Town Engineer
Town of Exeter
Department of Public Works
13 Newfields Rd
Exeter NH 03833

Re: Dry Hydrant - Franklin Street

Dear Mr. Vlasich,

Following up on our meeting last week regarding installation of a dry hydrant on Franklin Street.; due to the high costs involved; the Fire Department has opted to not install another dry hydrant on Franklin Street.

Let me know if you need any further information or if I can be of assistance.

Sincerely

Brian D. Comeau
Fire Chief

A Tradition of Service

Advanced Life Support/EMS ✚ Fire Suppression ✚ Health Department ✚ Emergency Management

www.exeternh.gov

Great Dam Removal - Budget Analysis and Estimates as of April 25, 2015

Appropriation \$ 1,786,758

Expenditures or Encumbrances

Bond bank	\$ 7,950
VHB - Design/Permit	\$ 367,816
HTA - Ret. Wall	\$ 4,030
Mill Agreement	\$ 437,500
Advertising and Postage	\$ 482
	<u>\$ 817,778</u>

Current Balance Available \$ 968,980

Contractor - Dam Removal & Stream Restoration \$ 873,900

\$ 95,080

First Year Costs

VHB - Contract Admin. & Inspection - base bid	\$ 59,800
Fish Monitor Structure	\$ 21,300
106 Stipulation - Photos	\$ 4,300
Monitor Program - Baseline	\$ 5,840
	<u>\$ 91,240</u>

\$ 3,840

Remaining Work (excluding Alt. C - Dry Hydrant)

Contractor Alt. A - Water Intake Modification	\$ 81,000
Contractor Alt. B - YR2 Stream Adjustments	\$ 8,000
VHB Contract Admin. & Inspection for Alt. A & B	\$ 11,600
	<u>\$ 100,600</u>

Remaining 106 Stipulations	\$ 31,700
Monitoring - Three years	\$ 18,500
	<u>\$ 50,200</u>

\$ 150,800

\$ (146,960)

Alt. C - Dry Hydrant

Contractor Alt. C - Dry Hydrant	\$ 149,500
VHB Contract Admin. & Inspection for Alt. C	\$ 5,100
	<u>\$ 154,600</u>

\$ (301,560)