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August 17, 2012

Judy Anderson
Town Manager
Town of Fairfax
142 Bolinas Ave.
Fairfax, CA 94930

RE: Pastori Storm Drain Outfall-Bank Stabilization/Fish Relocation and Biological and Turbidity Monitoring During Construction Activities-Scope of Work and Cost Estimate

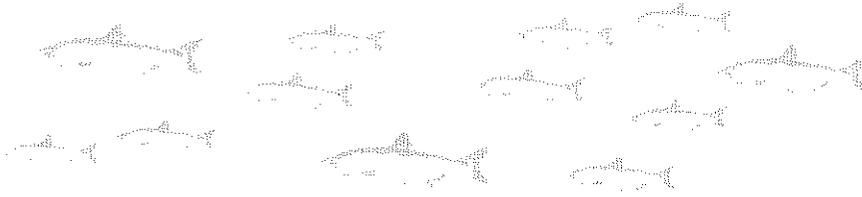
Dear Judy:

Attached is a Scope/Cost Estimate for the Town of Fairfax's Pastori project. It is basically the same one (minus a number of days of work, as the project will take less time) that I sent to Georgia McDaniel at CSW/Stuber-Stroeh and cc'ed Michael Rock back on April 24. It also includes the May 15 Proposal/Scope of Work (minus a number of days of work as the project will take less time) for the turbidity monitoring required by the Regional Water Quality Control Board. To provide a framework for the cost estimate, I have included a number of assumptions, all of which are listed in the attached Scope/Cost Estimate.

According to what Georgia told me, Wildcat Construction has not done any creek projects of this nature before. Hence, we will have to keep a good eye on their activities, to make sure they are protective of the creek and minimize their impact on the riparian corridor. Most construction companies that we have worked with here in Marin County have been great. However, in my over 29 years of business, it has been my experience that these "good guys" are the exception and that there are few construction companies that are aware of how to protect the creeks and their inhabitants during the construction activities. Or, they simply do not care; that has, unfortunately, been my experience more often than not. Hopefully, Wildcat Construction will be one of the "good guys".

Normally we do not commence work until we have a signed contract. However, as Michael Rock saw the original Scopes/Budgets back in April and May, I am confident that the Town of Fairfax will sign a contract by early next week. Do you want me to send you a Professional Services Agreement and attach the enclosed Scope/Estimated Costs?

Item #1



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If you have any questions, or wish to discuss any of this further, please do not hesitate to contact me. I will be around all weekend. We plan to be at the site at about 8 am and I am hopeful that we can get a signed contract with the Town early next week, as well.

Thank you.

Sincerely,

Alice A. Rich, Ph.D.

Alice A. Rich, Ph.D.

Encl

cc: Georgia McDaniel, CSW/Stuber-Stroeh
file (ja081712 Pastori-Scope and Cost Estimate)

A.A. RICH AND ASSOCIATES

August 17, 2012

Judy Anderson
Town Manager
Town of Fairfax
142 Bolinas Ave.
Fairfax, CA 94930

RE: Pastori Storm Drain Outfall-Bank Stabilization/Fish Relocation and Biological and Turbidity Monitoring During Construction Activities-Scope of Work and Cost Estimate

A. Task 1: Fish Collection and Relocation (including mobilization and demobilization of equipment)

Assumptions:

- (1) Work is anticipated to take 5 days to complete and will, thus, begin August 20th and end August 24, 2012.
- (2) Number of hours for field biologists will be 8 hours per day. If there is overtime, that will be on a time-and-a-half basis, per California law.

Scope of Work: Prior to any construction activities, fish will be collected and relocated under the supervision of Dr. Alice Rich, per the January 26, 2011 Fish Relocation Plan prepared by Dr. Rich.

Cost Estimate

Labor

A. Rich (@ \$165/hr) x 12 hours	\$ 1,980
Fisheries Field Supervisor (@ \$85/hr) x 5 days x 8 hours/day	\$ 3,400
Fisheries Biologist (@ \$75/hr) x 5 days x 8 hours/day	\$ 3,000
Fisheries Biologist (@ \$75/hr) x 5 days x 8 hours/day	\$ 3,000
	<u>\$ 11,380</u>

Other Direct Costs

Mileage (@ \$0.555/mi)	\$ 75
Rental	
Electrofisher (@ \$100/day) x 5 days	\$ 500
Block nets (@ \$25/net/day) 6 nets x 5 days	\$ 750
Photocopies (@ \$1.50/sheet for waterproof monitoring sheets)	\$ 10
	<u>\$ 1,335</u>

Cost for Task 1 **\$ 12,715**

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B. Task 2: Biological Monitoring During Construction Activities

- Assumptions:**
- (1) Construction company would be a company such as Maggiora Ghilotti.¹
 - (1) Construction time would be (August 27-October 15, 2012), per G. McDaniel's 7/23/12 email. If the work extends beyond October 15th, that time will be billed, per the attached Fee Schedule.
 - (2) Work would be from Monday-Saturday each week.
 - (3) There will be 43 working days at 8 hours per day for the Biological Monitor/Biologist.
 - (4) Overtime is not part of this cost estimate. If there is overtime, that will be on a time-and-a-half basis, per California law.

Scope of Work: A qualified Biological Monitor/Biologist will be on-site throughout the construction activities, per DFG's and NOAA Fisheries requirements. In addition to monitoring construction activities to make sure that no activity will result in damage to the creek (e.g., silt, debris, equipment, etc.) or the steelhead in the creek, the Biological Monitor will check daily for stranded or trapped aquatic life (specifically, steelhead/rainbow juveniles). If any listed, rare, or special status species are detected during the construction activities, those species will be reported to both DFG and NOAA Fisheries within five working days of sightings.

Cost Estimate

Labor

A. Rich (@ \$165/hr) x 24 hours	\$ 3,960
Biological Monitor (@ \$85/hr) x 43 days x 8 hours/day	<u>\$ 29,240</u>
	\$ 33,200

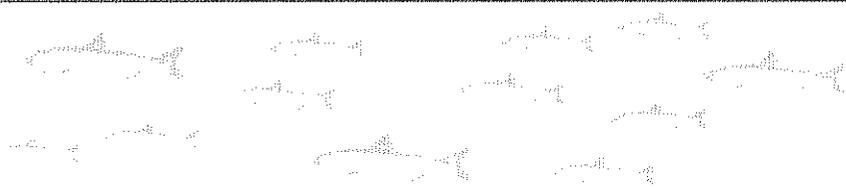
Other Direct Costs

Mileage (@ \$0.555/mi)	\$ 100
Photocopies (@ \$1.50/sheet for waterproof monitoring sheets)	<u>\$ 270</u>
	\$ 370

Cost for Task 2 **\$ 33,570**

¹ In other words, requires a lot of time by the biological monitors making certain that they are protective of the creek and its inhabitants

A.A. RICH AND ASSOCIATES



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C. Task 3: Turbidity Monitoring

Task 3a: During the initial startup phase of bypassing water around the project site, turbidity shall be measured once every 15 minutes²

Labor

A. Rich (@ \$165/hr) x 8 hours	\$ 1,320
Aquatic Biologist/Water Quality (@ \$85/hr) 60 hrs	\$ 5,100
	<u>\$ 6,420</u>

Other Direct Costs

Mileage (@ \$0.555/mi)	\$ 25
Rental Turbidity Instrument ³ (@ \$25/day) x 7 days	\$ 175
Photocopies (@ \$1.50/sheet for waterproof sheets)	\$ 50
	<u>\$ 250</u>

Cost for Task 3a \$ 6,670

Task 3b: Turbidity at the three monitor locations measured daily

Labor

A. Rich (@ \$165/hr) x 10 hours	\$ 1,650
Biological Monitor (@ \$85/hr) x 43 days x 1 hour/day	\$ no charge
	<u>\$ 1,650</u>

Other Direct Costs

Rental Turbidity Instrument (@ \$25/day) X 43 days	\$ 1,075
Photocopies (@ \$1.50/sheet for waterproof sheets)	\$ 100
	<u>\$ 1,175</u>

Cost for Task 3b \$ 2,825

Task 3c: Monthly Report to RWQCB

Labor

A. Rich (@ \$165/hr) x 20 hours	\$ 3,300
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Cost for Task 3c \$ 3,300

Total Estimated Cost for Task 3 \$12,795

² Assumes 7 days of monitoring every 15 minutes for eight hours per day.

³ HACH 2100Q-01 Portable Turbidimeter (meets EPA method 180.1 and ISO 7027)

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D. Task 4: Follow-Up Report to NOAA Fisheries and the Department of Fish and Game

Assumptions: One in-house (i.e., Town of Fairfax) draft and one copy of final report (electronic copies)

Scope of Work: A report of the fish collection and relocation activities will be submitted to the California Department of Fish and Game and NOAA Fisheries within 30 days after relocation activities have been completed.

Cost Estimate:

Labor

A. Rich (@ \$165/hr) x 12 hours	\$ 1,980
Graphics (@\$100/hr) x 4 hours	\$ 400
	<u>\$ 2,380</u>

Cost for Task 3

\$ 2,380

E. Task 5: Communications (emails, phone, letter) with Relevant Parties (agencies, Town, CSW Stuber-Stroeh)

Scope of Work: Ongoing communication by Dr. Rich throughout the project

Cost Estimate:

Labor

A. Rich (@ \$165/hr) x 12 hours	\$ 1,980
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Cost for Task 4

\$ 1,980

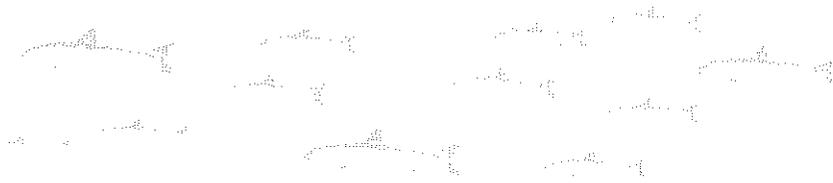
Total Estimated Cost

Task 1	\$ 12,715
Task 2	\$ 33,570
Task 3	\$ 12,795
Task 4	\$ 2,380
Task 5	\$ 1,980
	<u>\$ 63,440</u>

Total Estimated Cost

\$ 63,440

A.A. RICH AND ASSOCIATES



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Fee Schedule

Personnel

Hourly fees by personnel classification are as follows:

Labor

A. Rich	
General Rate	\$ 165.00
Expert Witness Preparation and Testimony	\$ 350.00
Project Staff	
Supervisor Fisheries Biologist	\$ 85.00
Fisheries Biologist	\$ 75.00
Biological Monitor	\$ 85.00
Administrative Assistant	\$ 65.00
Graphics Illustrator	\$ 100.00

Other Direct Costs

Photocopies	
Black and White	\$ 00.10/copy
Color and Water Proof Data Sheets	\$ 1.50/copy
Fax	\$ 1.50/page
Mileage	\$ 00.55/mi
Per Diem (per person)	\$ 150/day/person
Equipment Rental (list provided for each project)	

Purchased Services

A charge of 15% is applied to **Other Direct Costs**. These **Other Direct Costs** include, but are not limited to, photocopies, mileage, rented or leased equipment, per diem, and expendable supplies.