

**AMENDMENT NO. 1 TO CONSULTING SERVICES AGREEMENT BETWEEN
THE CITY OF SAN LEANDRO AND
CAROLLO ENGINEERS, INC.**

This **Amendment No. 1** ("Amendment") is made by and between the City of San Leandro ("City") and Carollo Engineers, Inc. ("Consultant") (together sometimes referred to as the "Parties") as of June 5, 2015, and amends that certain Consulting Services Agreement ("Agreement") dated March 16, 2014, between the Parties.

WHEREAS, City and Consultant have executed the Agreement, pursuant to which Consultant has provided certain consulting services to City with regard to the design of a new equipment pad at the former polishing ponds of the Water Pollution Control Plant; and

WHEREAS, the Parties desire to amend the Agreement to extend the Term and amend Compensation to expand the scope as described in Attachment 1 of Exhibit A.

NOW THEREFORE, for good and valuable consideration, the sufficiency of which is hereby acknowledged, the Parties hereby agree to amend the Agreement as follows:

1. Section 1.1 of the Agreement entitled "Term of Services" is hereby amended to extend the term from June 30, 2015, to June 30, 2016; and
2. Section 2 of the Agreement entitled "Compensation" is hereby amended to pay Consultant a sum not to exceed \$178,370.00; and
3. Exhibit A is hereby amended for additional scope of work; and
4. All other terms shall remain in full force and effect.

SIGNATURES ON FOLLOWING PAGE

The Parties have executed this Amendment as of the date first written above. The persons whose signatures appear below certify that they are authorized to sign on behalf of the respective Party.

CITY OF SAN LEANDRO

CONSULTANT

Chris Zapata, City Manager

Rick L. Chan, Professional Engineer
Vice President / Principal-in-Charge

Attest:

Tamika Greenwood, City Clerk

Steve Swanback, Professional Engineer
Vice President / Principal-in-Charge

Approved as to Fiscal Authority:

David Baum, Finance Director

Account Number : 593-52-229-5120

Approved as to Form:

Richard D. Pio Roda, City Attorney

May 19, 2014

Ingrid Lin
City of San Leandro
Engineering and Transportation Department
835 East 14th Street.
San Leandro, CA 94577

Subject: Proposal for Additional Services to Provide HAZWOPER-trained operator –
WPCP Contaminated Dirt Relocation Project

Dear Ingrid,

As outlined in the agreement date April 2, 2014, the City of San Leandro (City) was supposed to provide a Contractor to assist our Subconsultant (Fugro) with sampling activities. However, the Contractor identified by the City has not had the availability to provide a HAZWOPER-trained operator. Consequently, the City asked Fugro to arrange for their own HAZWOPER-trained operator to provide the field assistance.

Fugro has identified a HAZWOPER contractor (Controlled Environmental Services, CES) with availability to assist Fugro with field sampling.

The incremental cost for this effort is \$4,576. This includes a 10% markup.

A detailed breakdown of cost and description of scope can be found in the attached proposal from Fugro.

We request you to kindly approve this request for amendment.

Please do not hesitate to contact us if you have any questions or require additional information.

Sincerely,

CAROLLO ENGINEERS, INC.



Rick L. Chan., P.E.
Vice President/Principal-in-Charge



Zaheer Shaikh, P.E.
Project Manager



May 16, 2014
Proposal No. 04.7214027

Carollo Engineers
2700 Ygancio Valley Road
Walnut Creek, California 94598

Attention: Mr. Zaheer Shaikh

Subject: Proposal for Additional Services, WCPC Contaminated Soil Relocation Project, San Leandro Water Pollution Control Plant, San Leandro, California

Dear Mr. Shaikh:

Fugro Consultants Inc. (Fugro) is formally requesting an amendment to our existing Task Order No. 1. Fugro's scope of work outlined in the Task Order No. 1 between Carollo Engineers and Fugro West, Inc. dated April 17, 2014 included a provision that the City of San Leandro (City) was to provide a contractor to assist with sampling activities. However, the contractor identified by the City has not had the availability to provide a HAZWOPER-trained operator and Fugro was asked to research the availability of a different contractor with HAZWOPER-trained operators which could provide the field assistance in a more timely manner.

Fugro has identified a HAZWOPER contractor (Controlled Environmental Services, CES) with availability to assist our field sampling staff. CES can provide the operator and equipment next Tuesday, May 20, 2014. Fugro has a long-standing work relationship with CES and they are on our approved subcontractor list. We estimate that the additional cost for Fugro to retain the contractor for the one day's scope of work will be about \$4,000. We have assumed that three hours of overtime may be required to complete the sampling in one day. A breakdown of the cost is presented below.

Contractor with HAZWOPER trained operator (Includes 10% mark up)	\$3,410
Fugro Contractor Research and Coordination	\$ 650
	\$4,160





Fugro respectfully requests that our current Task Order No. 1 Authorization be amended by \$4,160 to cover retaining a contractor to assist in sample collection. We appreciate the opportunity to continue to provide services to Carollo and the City on this Site. If you have any questions, please call.

Yours very truly,
FUGRO CONSULTANTS, INC.

A handwritten signature in black ink that reads "Jeriann Alexander".

Jeriann Alexander, PE, REPA
Manager, Environmental Services

Copies Submitted: (1 PDF) Addressee

CES Controlled Environmental Services

License #807330 A-Haz
 P.O. Box 401
 Oakley, CA 94561

Estimate

DATE	ESTIMATE NO.
5/15/2014	3918

NAME / ADDRESS
Fugro West Inc. 2420 Del Paso Road suite 250 Sacramento, CA 95834 Attention: Mr. Mike D'anna

PROJECT
3918 Dig Test Pits

DESCRIPTION	QTY	COST	TOTAL
Estimate to provide 1-operator and backhoe to dig test pits as directed by Furgro West. *Site-2660 Eden Rd, San Leandro, CA Labor and Equipment to dig test pits as directed, on a per day basis \$2350.00 per day. Overtime on a per hour rate \$250.00 EXCEPTIONS: The estimate above does not include repairs, rerouting or relocating any underground utilities, the test pits are in areas where USA Notification is not received. I hereby authorize CES Controlled Environmental Services Inc. to provide and perform the services described in this proposal/contract #3918 and payment to CES at the time and material prices, terms and conditions for performing the work. This terms will prevail to any other agreements. Sign: _____ Name: _____ Date: _____		2,350.00	2,350.00
This Estimate is good for 30 Days		TOTAL	\$2,350.00



October 02, 2014

Ingrid Lin
City of San Leandro
Engineering and Transportation Department
835 East 14th Street.
San Leandro, CA 94577

Subject: Proposal for Additional Services to Locate the Pad on the East Side of the Pond
– WPCP Contaminated Dirt Relocation Project

Dear Ingrid,

The original vision for the project was to create an equipment storage area at the west end of the existing polishing pond. During initial geotechnical evaluations of the equipment pad area, additional substantial geotechnical considerations were encountered. In response to these considerations, the City of San Leandro (City) requested Fugro evaluate situating the new equipment pad in the east end of the polishing pond.

The incremental cost for this effort is \$11,000. This includes a 10% markup.

A description of scope can be found in the attached proposal from Fugro.

We request you to kindly approve this request for amendment.

Please do not hesitate to contact us if you have any questions or require additional information.

Sincerely,

CAROLLO ENGINEERS, INC.

A handwritten signature in black ink that reads "Rick Chan". The signature is written in a cursive, flowing style.

Rick L. Chan., P.E.
Vice President/Principal-in-Charge

A handwritten signature in black ink that reads "Zaheer Shaikh". The signature is written in a cursive, flowing style.

Zaheer Shaikh, P.E.
Project Manager



1000 Broadway, Suite 440
Oakland, California 94607
Tel: (510) 268-0461
Fax: (510) 268-0137

July 25, 2014
Project No. 04.72140027

Carollo Engineers
2700 Ygancio Valley Road
Walnut Creek, California 94598

Attention: Mr. Rick Chan & Zaheer Shaikh

Subject: Cost Modification Request, Geotechnical Engineering Evaluation, WPCP Former Polishing Pond Equipment Pad Project, San Leandro Water Pollution Control Plant, San Leandro, California

Dear Mr. Chan & Mr. Shaikh:

Fugro Consultants, Inc. (Fugro) is pleased to present this cost modification request for design services associated with the WPCP Former Polishing Pond Equipment Pad Project. The original vision for the project was to create an equipment storage area at the west end of the existing polishing pond. During our initial geotechnical evaluations of the equipment pad area, additional substantial geotechnical considerations were encountered. These additional considerations include:

- Impacts to fuel lines (settlements). Placement of fill adjacent to the south levee (which has active Kinder Morgan pipelines) will result in settlements that may stress and deform the pipelines.
- Removal of effluent culvert. An existing culvert exists that allows effluent water from the polishing pond to drain to the bay. The culvert will need to be decommissioned. This culvert traverses under the Kinder Morgan pipelines, so extra care must be taken during the decommissioning process to prevent impacting these pipelines.

In response to these considerations, the City of San Leandro (City) requested Fugro evaluate situating the new equipment pad in the east end of the polishing pond. This resulted in additional geotechnical and environmental evaluations to develop conceptual sections, construction approaches, and analyzing slope stability & settlements.



Based on these factors, Fugro requests the following fee modifications:

Table 1: Summary of Fee Modifications

Task	Description	Original	Mod	New
1	Geotechnical Investigation	\$36,660	+\$10,000	\$46,660
	Evaluation of east end		\$10,000	
	TOTAL MODIFICATIONS		+\$10,000	

We will work with the City and Carollo to develop an updated schedule to complete the steps outlined above. We anticipate having the conceptual sections completed within one week of authorization of this cost modification.

We appreciate the opportunity to assist Carollo and the City with ongoing services at the WPCP. Feel free to call if you have any questions.

Sincerely,

FUGRO CONSULTANTS, INC.

A handwritten signature in black ink, appearing to read "Ronald L. Bajuniemi".

Ronald L. Bajuniemi, P.E., G.E.
Senior Principal Engineer

Copies Submitted: (1 PDF) Addressee



March 19, 2015

Ingrid Lin
City of San Leandro
Engineering and Transportation Department
835 East 14th Street.
San Leandro, CA 94577

Subject: Proposal for Additional Services to Assess Condition of Two Existing Monitoring Wells – WPCP Contaminated Dirt Relocation Project

Dear Ingrid,

During the meeting on February 26, 2015, the RWQCB asked the City of San Leandro to provide water quality data in the vicinity of the proposed soil relocation area. The City located in the field two of the four wells that were installed in the 1990s and the City desires to determine whether these existing wells can be used to collect representative water samples.

The incremental cost for this effort is \$8,085. This includes a 10% markup.

A description of scope can be found in the attached proposal (dated 03/17/2015) from Fugro.

We request you to kindly approve this request for amendment.

Please do not hesitate to contact us if you have any questions or require additional information.

Sincerely,

CAROLLO ENGINEERS, INC.

A handwritten signature in black ink that reads "Rick Chan". The signature is fluid and cursive.

Rick L. Chan., P.E.
Principal-in-Charge

A handwritten signature in black ink that reads "Zaheer Shaikh". The signature is fluid and cursive.

Zaheer Shaikh, P.E.
Project Manager



1000 Broadway, Suite 440
Oakland, California 94607
Tel: (510) 268-0461
Fax: (510) 268-0545

March 17, 2015
Proposal No. 04.7214027

Carollo Engineers
2700 Ygancio Valley Road
Walnut Creek, California 94598

Attention: Mr. Zaheer Shaikh

Subject: Proposal for Additional Services, Water Quality Assessment, WCPC Contaminated Soil Relocation Project, San Leandro Water Pollution Control Plant, San Leandro, California

Dear Mr. Shaikh:

Fugro Consultants Inc. (Fugro) is formally requesting an amendment to our existing Task Order No. 1. During the meeting with Vic Pal of the SF RWQCB on February 26, 2015, we understand that the RWQCB would like the City of San Leandro to provide water quality data in the vicinity of the proposed soil relocation area. To assist in this regard, the City and Carollo staff confirmed the location of two monitoring wells which were installed in 1999 near the soil relocation area. We understand that there is a desire to determine whether the wells can be used in collecting representative water samples and if so, would the RWQCB accept data from these wells.

Fugro will visit the Site and open the two identified wells to observe casing conditions and to measure water levels. We will then purge up to 3 well casing volumes of water from the wells. Purged water will be stored onsite in a drum to be located near well MW-4. Once the water has been purged, we will monitor the rate of recharge of the two wells. We will also attempt to locate the two additional wells which were also installed in 1999.

Fugro will discuss our findings with the City and Carollo staff in a teleconference call. If the wells appear to be sound, Fugro will develop a simplified plan of action to obtain and test samples from the wells. The plan of action, along with recently collected field data, well logs, site map, and rate of recharge for the wells will be presented in a Technical Memorandum which can be submitted to the RWQCB for their review. Fugro will attend one meeting with the City, Carollo staff and Vic Pal to discuss the proposed plan of action and our findings. A breakdown of the cost is presented below.

Planning and Supply Ordering	750
Well Condition Evaluation and Purging	3,300
Field Data Evaluation and Consultation	1,300
Tech Memorandum and RWQCB Meeting	2,000
Total	7,350





Fugro respectfully requests that our current Task Order No. 1 Authorization be amended by \$7,350 to cover these services. We have staff available to be onsite on Thursday or Friday of this week, but will need to know by end of day today (Tuesday) so we can secure supplies.

We appreciate the opportunity to continue to provide services to Carollo and the City on this project. If you have any questions, please call.

Yours very truly,

FUGRO CONSULTANTS, INC.



Jeriann Alexander, PE, REPA
Manager, Environmental Services

Copies Submitted: (1 PDF) Addressee

Soil Relocation Project Area Water Quality Assessment
Itemized Estimate for Change Order
17-Mar-15

<u>Item</u>	<u>Amount</u>	<u>Rate</u>	<u>Markup</u>	<u>cost</u>
Planning and Supply Ordering for 1 field day				
Lead Project Professional	2	\$ 221		\$ 442
Senior Technician	2	\$ 148		\$ 296
			Subtotal	\$ 738
 Well Condition Evaluation and Purging				
Lead Project Professional	4	\$ 221		\$ 884
Senior Technician	10	\$ 148		\$ 1,480
Supplies (drum, bailer, field meter)	1	500	50	\$ 550
IDW Disposal	1	300	30	\$ 330
			Subtotal	\$ 3,244
 Field Data Evaluation and Consultation with City (2, 1/2 hr calls)				
Lead Project Professional	4	\$ 221		\$ 884
Project Professional	2	\$ 205		\$ 410
			Subtotal	\$ 1,294
 Tech Memo Prep and Meeting with RWQCB (1, 1/2 hr call and 1, 1 hour meeting)				
Lead Project Professional	4	\$ 221		\$ 884
Project Professional	4	\$ 205		\$ 820
Doc Processing	4	\$ 94		\$ 376
			Subtotal	\$ 2,080
			Total	\$ 7,356



May 13, 2015

Ingrid Lin
City of San Leandro
Engineering and Transportation Department
835 East 14th Street.
San Leandro, CA 94577

Subject: Proposal to Perform Professional Engineering Services -
WPCP Former Polishing Pond Water Quality Assessment Study

Dear Ms. Lin:

Thank you for requesting our proposal for WPCP Former Polishing Pond Polishing Pond Water Quality Assessment Study for the City of San Leandro (City). As requested, Carollo Engineers (Carollo) is submitting the following proposed scope of services.

INTRODUCTION

The City owns and operates the City of San Leandro Water Pollution Control Plant (WPCP). Based on our discussions with the City, we understand that the City plans to fill the eastern third of the former polishing pond to create a 1-acre equipment storage area. Fill will comprise approximately 16,000 cubic yards of soil currently stockpiled at the WPCP drying bed area (spoils from the construction of the WPCP rehabilitation project). Recently geotechnical and soil stabilization studies were conducted on the spoils and sludge in the former polishing pond and results were discussed with the Regional Water Quality Control Board (RWQCB). RWQCB suggested collecting water quality data in the vicinity of the former polishing pond. An initial water quality assessment was completed in March 2015 and a Plan of Action dated March 31, 2015 outlining the next steps needed to determine the water quality in the area of the former polishing pond was submitted to the RWQCB.

RWQCB agreed with the Plan of Action which suggested that testing water samples from two of the existing onsite wells would yield representative water quality data in the vicinity of the former polishing pond. The City is requesting that the Plan of Action be implemented.

SCOPE OF SERVICES

Our subconsultant, Fugro Consultants Inc. (Fugro), will conduct the following activities to implement the Plan of Action (see attached proposal from Fugro dated May 5th, 2015)

- **Research local water quality data to identify data results which can be used to assess ambient water quality in the area of the sludge ponds:** Fugro will contact the Port of Oakland and Regional Water Quality Control Board staff to obtain the most recent data for the surface water sampling point referred to as SW-2 located at the Galbraith Golf Course, and Fugro will conduct research of local data within the San Francisco Estuary Institute (SFEI) CD3 website database. Ambient data will be summarized and used for comparison purposes along-side the new water quality data to be collected during this work. Fugro will also research current water quality goals for comparison purposes.

- **Water depth readings and purging wells MW-1 and MW-4:** Initially the well caps will be opened and Fugro will measure the depth to water below the existing top of well casings. At this same time the depth of water in the sludge pond near the depth gauge will be measured. The wells will then be purged up to 3 well casing volumes of water from the wells using new disposable bailers. Purged water will be added to the onsite waste storage drum located near well MW-4. During well purging, water quality parameters will be measured and recorded. Once water levels recharge to within 80 percent of their initial volume, Fugro will collect samples from the wells using new disposable bailers. Fugro will also collect former polishing pond water samples. The water samples will be retained in laboratory pre-cleaned containers which will be uniquely labeled and placed on ice, pending delivery to the laboratory.
- **Laboratory testing, data tabulation and evaluation:** The testing program for the well and pond samples will include the following. The samples will be tested on a normal turn around basis (7 working days) for the following analytical suite:
 - Metals by EPA Methods 200.7/8 and 6010 with and without filtering.
 - TPH diesel and motor oil range by EPA 8015.
 - TPH gasoline range by EPA 8260.
 - Volatile Organic Compounds by EPA 8260, low detection limits.

Laboratory data sets will be reviewed and validated, and results will be tabulated and compared to ambient data. Data will be evaluated with respect to water quality and project goals.

- **Reporting, consultation and agency meeting:** A written summary report will be prepared containing the results of this sampling and testing event. The report will include a site plan showing well and pond sampling locations, well purge records, research regarding local water quality data, and analytical test reports. The report will include conclusions regarding whether there is any indication of an adverse impact to water quality in the vicinity of the ponds as a result of a release or seepage from the ponds. The report will also address whether there is any indication that any such release may have impacted the adjacent tide channel or estuary. Fugro will consult with the City and Carollo regarding the results of the Plan of Action tasks, and will attend one meeting with the City, Carollo, and RWQCB to discuss the new data.

Drum content removal is not included in the scope. It is possible that the water can be evaporated onsite pending review of the result.

DELIVERABLES

The following deliverables will be provided to City:

- Report the results of this sampling and testing event.

Ingrid Lin
City of San Leandro
Engineering and Transportation Department
May 13, 2015
Page 3

PROPOSED ENGINEERING COST

Our proposed cost ceiling for this project is \$23,910.00 (see attached Exhibit B - Labor and Budget Estimate).

We appreciate your consideration on this project and look forward to working with you and plant staff. Please do not hesitate to contact us if you have any questions or require additional information on this proposal.

Sincerely,

CAROLLO ENGINEERS, INC.



Rick L. Chan., P.E.
Vice President/Principal-in-Charge



Zaheer Shaikh, P.E.
Project Manager

EXHIBIT B

LABOR AND BUDGET ESTIMATE

**CITY OF SAN LEANDRO
WPCP FORMER POLISHING POND WATER QUALITY ASSESSMENT STUDY**

Task			Total Hours	Labor Cost	Other Direct Costs (ODC)							Total Cost	
	SP	PP			Subconsultants			PECE ¹	Printing	Mileage ²			ODC Total
					Name	Amount	Markup	Trips		Amount			
1.0 Water Quality Assessment Study	1	8	9	\$2,049	Fugro	\$19,760	\$1,976	\$85	\$0	1	\$40	\$21,861	\$23,910
Totals =	1	8	9	\$2,049		\$19,760	\$1,976	\$85	\$0	1	\$40	Totals =	\$23,910

Legend:

SP Senior Professional
PP Project Professional

1. Project Equipment and Communication Expense - \$11.7/hr
2. Based on 70 miles per round trip @ 0.575/mile

May 5, 2015
Proposal No. 04.7214027

Carollo Engineers
2700 Ygnacio Valley Road
Walnut Creek, California 94598

Attention: Mr. Zaheer Shaikh

Subject: Proposal for Additional Services, Water Quality Assessment – Phase 2, WCPC
Contaminated Soil Relocation Project, San Leandro Water Pollution Control Plant,
San Leandro, California

Dear Mr. Shaikh:

Fugro Consultants Inc. (Fugro) is formally requesting an amendment to our existing Task Order No. 1 for services requested to conduct the next phase of water quality assessment at the referenced site. Fugro completed Phase I of the water quality assessment in March 2015 and submitted a Plan of Action dated March 31, 2015 outlining the next steps needed to determine the quality of the water in the area of the existing sludge ponds. Fugro understands that Mr. Vic Pal of the SF RWQCB agreed with the Plan of Action which suggested that testing water samples from two of the existing onsite wells would yield representative water quality data in the vicinity of the sludge ponds. The City of San Leandro is requesting that the Plan of Action be implemented.

Fugro will conduct the following activities to implement the Plan of Action:

- **Research local water quality data to identify data results which can be used to assess ambient water quality in the area of the sludge ponds.** Fugro will contact the Port of Oakland and Regional Water Quality Control Board staff to obtain the most recent data for the surface water sampling point referred to as SW-2 located at the Galbraith Golf Course, and Fugro will conduct research of local data within the San Francisco Estuary Institute (SFEI) CD3 website database. Ambient data will be summarized and used for comparison purposes along-side the new water quality data to be collected during this phase of work. Fugro will also research current water quality goals for comparison purposes.
- **Water depth readings and purging wells MW-1 and MW-4.** Initially the well caps will be opened and Fugro will measure the depth to water below the existing top of well casings. At this same time the depth of water in the sludge pond near the depth gauge will be measured. The wells will then be purged up to 3 well casing volumes of water from the wells using new disposable bailers. Purged water will be added to the onsite waste storage drum located near well MW-4. During well purging, water quality parameters will be measured and recorded. Once water





levels recharge to within 80 percent of their initial volume, Fugro will collect samples from the wells using new disposable bailers. We will also collect sludge pond water samples. The water samples will be retained in laboratory pre-cleaned containers which will be uniquely labeled and placed on ice, pending delivery to the laboratory.

- **Laboratory testing, data tabulation and evaluation.** The testing program for the well and pond samples will include the following. The samples will be tested on a normal turn around basis (7 working days) for the following analytical suite:
 - Metals by EPA Methods 200.7/8 and 6010 with and without filtering.
 - TPH diesel and motor oil range by EPA 8015.
 - TPH gasoline range by EPA 8260.
 - Volatile Organic Compounds by EPA 8260, low detection limits.

Laboratory data sets will be reviewed and validated, and results will be tabulated and compared to ambient data. Data will be evaluated with respect to water quality and project goals.

- **Reporting, consultation and agency meeting.** A written summary report will be prepared containing the results of this sampling and testing event. The report will include a site plan showing well and pond sampling locations, well purge records, research regarding local water quality data, and analytical test reports. The report will include conclusions regarding whether there is any indication of an adverse impact to water quality in the vicinity of the ponds as a result of a release or seepage from the ponds. The report will also address whether there is any indication that any such release may have impacted the adjacent tide channel or estuary. Fugro will consult with the City and Carollo regarding the results of the Plan of Action tasks, and will attend one meeting with the City, Carollo staff, and Mr. Pal to discuss the new data.

A breakdown of the cost to implement the Plan of Action is presented below. Drum content removal is not included in this current breakdown. It is possible that the water can be evaporated onsite pending review of the results.

Research of ambient water quality data and water quality goals	\$2,100
Well Purging and Sampling	\$7,150
Laboratory Testing, Data Compilation & Evaluation	\$5,270
Reporting, Consultation and Meeting with RWQCB	\$5,240
Total	\$19,760



Fugro respectfully requests that our current Task Order No. 1 Authorization be amended by \$19,760 to cover these services. We appreciate the opportunity to continue to provide services to Carollo and the City on this project. If you have any questions, please call.

Yours very truly,

FUGRO CONSULTANTS, INC.

A handwritten signature in black ink that reads "Jeriann Alexander". The signature is fluid and cursive, with a large initial "J" and "A".

Jeriann Alexander, PE, REPA
Manager, Environmental Services

Copies Submitted: (1 PDF) Addressee

Soil Relocation Project Area
Phase 2 - Water Quality Assessment
Itemized Estimate for Change Order
5-May-15

<u>Item</u>	<u>Amount</u>	<u>Rate</u>	<u>Markup</u>	<u>cost</u>
Research for Ambient Data and Water Quality Goals				
Principal Engineer	2	\$ 230		\$ 460
Associate Staff	8	\$ 205		\$ 1,640
			Subtotal	\$ 2,100
 Well Purging and Sampling, Pond Sampling - Sample Delivery				
Principal Engineer	2	\$ 230		\$ 460
Associate Staff	6	\$ 205		\$ 1,230
Senior Staff	20	\$ 145		\$ 2,900
Senior Technician	16	\$ 110		\$ 1,760
Vehical and Tools	2	\$ 150		\$ 300
Supplies (bailers, field meter rental)	1	500		\$ 500
			Subtotal	\$ 7,150
 Laboratory Analysis and Handling of Water Samples (3 and a travel sample))				
Data Compilation, Tabulation, Evaluation				
Principal Engineer	2	\$ 230		\$ 460
Associate Staff	4	\$ 205		\$ 820
Senior Staff	12	\$ 145		\$ 1,740
TPH (DRO/MO)	3	\$125		\$ 375
Metals with filtering	3	\$225		\$ 675
Metals	3	\$200		\$ 600
VOC and GRO by EPA 8260 low detection limits	4	\$150		\$ 600
			Subtotal	\$ 5,270
 Report Preparation and Consultation, Meeting with RWQCB (1 hour meeting)				
Principal Engineer	4	\$ 230		\$ 920
Associate Staff	8	\$ 205		\$ 1,640
Senior Staff	16	\$ 145		\$ 2,320
Wor processing	4	\$ 90		\$ 360
			Subtotal	\$ 5,240
			Total	\$ 19,760