## Detterman, Mark, Env. Health

From: Matt Farris [matt.farris@innovex.net]

Sent: Wednesday, August 13, 2014 10:28 AM

To: Sunil.Ramdass@waterboards.ca.gov

Cc: Brian Busch; Detterman, Mark, Env. Health

Subject: Excavation cost breakdown for Claim# 14228

Attachments: Copy of Excavation scope brkdown.xls

Hi Sunil,

Here is the cost breakdown you requested for excavation activities at the Palace Garage site in San Leandro, claim #14228. I used the original change order cost breakdown sheet and expanded it to clarify the lump sums previously listed. The excavation scope will include the following activities:

- Pre-field coordination, utility search and public notification of excavation for nearby sites
- Permit procurement/agency notification and subcontractor coordination
- Mobilization of equipment and materials
- Asphalt removal
- Shoring installation
- Excavation and stockpiling of impacted soil (2 phases)
- Import and placement/ compaction of drain rock backfill (2 phases)
- Waste characterization, loading, transportation and disposal
- Asphalt surface replacement
- Evaluation and reporting

Please keep in mind this is just the proposed scope of work for excavation at the site. Public notification of closure, well destruction, and site restoration are not included. I did however include general costs to complete these activities as part of the post remediation/closure section of the change order breakdown for your convenience. If you have any questions or would like additional information please feel free to contact me.

Thanks, Matt

Matthew Farris P.G. Senior Project Geologist

## **Innovex Environmental Management**

3900 Lennane Drive, Suite 130 Sacramento, CA 95834 Direct (916)760-7579 Cell (925) 808-9290 Fax +1 (925) 459-5602

## **USTCF Budget Estimate**

Budget Estimate for Additional Work - Fiscal Year 2014/2015

Site Address: 14336 Washington Ave, San Leandro, CA 94578

Budget Allocation for FY 2014/2015: \$45,000

Prepared By: INNOVEX

Requested Increase: \$134,000

**CUF Reviewed By:** 

Total Budget for FY 2014/2015: \$179,000 Change Order Request Date: 7/1/14

**CUF Review Date:** 

Protect Nanocement		Work Phase	Task			ie G	<u> </u>	L .	
Project Munapement					rter 2014	Suart 2014	arter 2015	arte 2015	
Protect Management   Scheduling, overright, supervision, coord   \$1,000   \$1,000   \$1,000   \$0   \$0   \$0   \$0   \$0   \$0   \$0					Quai	nd G Dec	Qua	h Qu Jun j	
Protect Management					First (Jul-S	Seco (Oct-	Third (Jan-	Fourt (Apr	
Solit Assessment	1	Project Management	Scheduling, oversight, supervision, coord		\$1.000				\$0
Solity   S		. roject management	TOTAL	\$0					
Soil Gas Survey	2	Site Assessment	Soil/Water Sampling						
Voleptor/Reporting									
Other (Recoptor Survey)			Workplan/Reporting						
3   Groundwater   SoilWater Sampling   S2,000			Other (Receptor Survey)						
Reporting			TOTAL	\$0	\$0		\$0	\$0	\$0
Laboratory Analysis	3								
Other		Monitoring							
A85   Remedy Selection			Other		Ψ2,000		Ψ2,000		
Corrective Action Plan   Workplan/Reporting (Conceptual Site Model)   Other   TOTAL   \$0   \$0   \$0   \$0   \$0   \$0   \$0   \$			TOTAL		\$6,000	\$0	\$6,000	\$0	\$0
Corrective Action Plan   Workplan/Reporting (Conceptual Site Model)   Other   TOTAL   \$0   \$0   \$0   \$0   \$0   \$0   \$0   \$	4&5	Remedy Selection	Feasibility Study/Alternative Screening						
Workplan/Reporting (Conceptual Site Model   Other TOTAL   30   \$0   \$0   \$0   \$0   \$0   \$0   \$0			Bench or Pilot Test Corrective Action Plan						
TOTAL   \$0   \$0   \$0   \$0   \$0   \$0   \$0   \$			Workplan/Reporting (Conceptual Site Model)						
INNOVEX pre-field coordination				\$0	\$0	\$0	\$0	\$0	\$0
Solution				<del></del>	<del>-</del>	<b>Q</b> O	<b>\$</b> 0	ΨÜ	<b>,</b>
INNOVEX permitting/ subcontractor	_	Later Co. Decree Pal Augus				<b>#</b> 0.000			
Coordination   S10,000	5	Interim Remedial Action	INNOVEX permitting/ subcontractor			\$8,000			
Excavation/backfilling/restoration   S65,000   NNOVEX Excavation/backfilling/restoration   Oversight   SUBCONTRACTOR Waste transportation   SUBCONTRACTOR Waste transportation   S15,000   S22,000   NNOVEX Waste characterization/ transportation coordination/oversight   S7,500   S20,000   S00			coordination			\$10,000			
TINNOVEX Excavation/backfilling/restoration   S15,000						\$65,000			
SUBCONTRACTOR Waste transportation and disposal   S22,000			INNOVEX Excavation/backfilling/restoration						
And disposal   S22,000   INNOVEX Waste characterization/ transprotation coordination/oversight   S7,500   S0   S0   S0   S0   S0   S0   S0			oversight SUBCONTRACTOR Waste transportation			\$15,000			
transprotation coordination/oversight   \$7,500   \$4,000   \$300			and disposal			\$22,000			
Evaluation and Reporting   SoliWater Sampling   Laboratory Analysis   S1,500   S1,						\$7.500			
Laboratory Analysis   Utilities   Utilit			Evaluation and Reporting						
Utilities						\$1.500			
TOTAL   \$0   \$0   \$133,000   \$0   \$0   \$0   \$0   \$0   \$0   \$0			Utilities			ψ1,500			
Design/Specs/Bidding				\$0	\$0	\$133,000	\$0	\$0	\$0
Permitting   Well Installation/Construction   Bio-Treatment   Disposal   Soli/Water Sampling   Bio-Treatment	6	Pamadial Implementation	Design/Space/Bidding						
Bio-Treatment   Disposal   Soil/Water Sampling   Laboratory Analysis   Workplan/Reporting   Other   TOTAL   \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	0	Remedial implementation	Permitting						
Disposal   Soil/Water Sampling   Laboratory Analysis   Workplan/Reporting   Other   TOTAL   \$0   \$0   \$0   \$0   \$0   \$0   \$0   \$									
Laboratory Analysis   Workplan/Reporting   Other			Disposal						
Workplan/Reporting			Soil/Water Sampling						
TOTAL   \$0   \$0   \$0   \$0   \$0   \$0   \$0   \$			Workplan/Reporting						
7   Remedial System				\$0	\$0	\$0	\$0	\$0	\$0
System Monitoring/O&M (\$3000/mo)		B #10 :		<del>Q</del> 0	<del>-</del>	<del>~</del> ~	Ψ0	Ψΰ	•••
Repairs/Consumables	7	Remedial System							
Utilities (Electricity \$1,000/mo)   Soil/Water/Vapor Sampling   Laboratory Analysis - Startup Sampling   Reporting   Carbon Changeout/Disposa   Other: System Decommissioning   TOTAL \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0		O&M	Repairs/Consumables						
Soil/Water/Vapor Sampling   Laboratory Analysis - Startup Sampling   Reporting   Carbon Changeout/Disposa   Other: System Decommissioning   TOTAL \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0			Utilities (Electricity \$1,000/mo)						
Reporting   Carbon Changeout/Disposa   Other: System Decommissioning   TOTAL   \$0			Soil/Water/Vapor Sampling						
Carbon Changeout/Disposa   Other: System Decommissioning   TOTAL   \$0   \$0   \$0   \$0   \$0   \$0   \$0   \$			Reporting						
TOTAL   \$0   \$0   \$0   \$0   \$0   \$0   \$0   \$			Carbon Changeout/Disposa						
Verification Soil Sampling	L			<b>\$</b> 0	\$0	\$0	\$0	\$0	<b>\$</b> 0
Verification Soil Sampling	0	Post Permediation/Classics	Poet Pemediation Water Compline	•					
Data Evaluation/Risk Assessment   Vapor Intrusion Study	0	i ost ivemediation/Closule	Verification Soil Sampling						
Vapor Intrusion Study         \$23,000           Well Abandonment & Site Restoration         \$23,000           Reporting and public notification for closure         \$6,000           Other         TOTAL         \$0         \$0         \$6,000         \$24,000         \$0								\$1,000	
Well Abandonment & Site Restoration         \$23,000           Reporting and public notification for closure         \$6,000           Other         TOTAL         \$0         \$0         \$6,000         \$24,000         \$0									
Other TOTAL \$0 \$0 \$6,000 \$24,000 \$0			Well Abandonment & Site Restoration				00.00	\$23,000	
TOTAL \$0 \$0 \$0 \$6,000 \$24,000 \$0							\$6,000		
Subtotal \$0 \$7,000 \$124,000 \$12,000 \$25,000 \$0				\$0	\$0	\$0	\$6,000	\$24,000	\$0
Subtotal   \$0    \$7,000   \$134,000    \$13,000    \$23,000    \$0		Subtotal		\$0	\$7,000	\$134,000	\$13,000	\$25,000	\$0