



October 21, 2022

Christian Di Renzo
Director of Public Works & Utilities
City of Watsonville
500 Clearwater Lane
Watsonville, CA 95076

Re: Scope of Work and Cost Estimate
Corrective Action Plan (CAP) Implementation (Phase 2)
Task Order TO-4
Freedom Boulevard and Vicinity (Offsite)
Watsonville, CA

Dear Mr. Di Renzo:

Daniel B. Stephens & Associates, Inc. (DBS&A) has prepared this scope of work and cost estimate to assist the City of Watsonville with implementation of the Corrective Action Plan (CAP) for the offsite area dated June 11, 2021.

Scope of Work

The scope of work consists of the following tasks:

- Potable Water Injections
- Semi-annual Monitoring
- Full-scale Design
- Project Management

Potable Water Injections

DBS&A will subcontract and oversee Regenesys, Inc. for potable water injection testing per the CAP. The injections will be completed to assist with full-scale groundwater treatment design. Injections will be completed in the areas near existing wells MW-9 (Laurel Street), well PMW-2R (Broadis at Freedom Boulevard), and MW-11R (Freedom Boulevard near Lincoln Street). The work will require traffic control in the field and DBS&A will subcontract and oversee Traffic Management Inc. (TMI) to implement the existing traffic control plans developed for the CAP tasks. This task is anticipated to be completed over a 3-day period in 2022. DBS&A will request city assistance with hydrant access near Laurel Street for water supply.

A specialty geophysical subcontractor will provide utility search services to verify that subsurface utilities are not co-located in planned drilling locations. Dig-Alert will also be contacted to conduct a search and clearance for public utility lines.

Daniel B. Stephens & Associates, Inc.

3150 Bristol Street, Suite 210

Costa Mesa, CA 92626

Attachment 2

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657-218-4708 x229

Mr. Di Renzo
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Semi-Annual Monitoring

Semi-annual soil vapor and groundwater monitoring will be completed per the Monitoring and Reporting Programs (MRPs) provided in the CAP. The events will be completed in the first quarter 2023 (1Q23) and the third quarter 2023 (3Q23). DBS&A will subcontract and oversee Blaine Tech Services for field sampling work each event. Samples will be delivered to Calscience Environmental Laboratories Inc. (Eurofins Calscience) in Tustin, California for analysis per the CAP.

Monitoring reports will be prepared for submittal to the Regional Water Quality Control Board (RWQCB) each event and the reports will be uploaded to the Geotracker website per RWQCB requirements. A draft report will be submitted each quarter to the city for review before delivery to the RWQCB.

Full-scale Design

The results of the passive flux meter (PFM) testing (completed per TO-3) will be combined with the baseline groundwater quality testing (completed per TO-2) and the potable water injection test data to develop a full-scale groundwater injection and treatment plan per the CAP. The injection plan, treatment performance monitoring, and injection reporting costs will also be prepared for city review and approval before field work for the injections is scheduled. Full-scale injections will be completed under a separate authorization.

Project Management

This task also includes project management for all tasks, consisting of scope of work development, costing, invoice control, field operations safety, quality control and client service. Mr. John J. Dodge, PG will be your point of contact for this work and DBS&A's project manager. Mr. Dodge may request and direct the assistance and expertise of other DBS&A staff or subcontractors as applicable and as needed to provide cost-efficient quality service.

Estimated Cost

The scope of work is summarized along with an estimated cost in Table 1. This is a time-and-materials (T&M) estimated based on the current understanding of the project tasks and the conditions discussed above. Work will be conducted in accordance with the Contract for Consultant Services between the City of Watsonville and Daniel B. Stephens & Associates, Inc. dated May 13, 2020.

Our proposed scope of work also includes additional as-needed services in the event that such services are directed or requested as needed by the city, such as additional data review, meetings, travel, evaluations, or related professional consulting services. DBS&A understands that additional work supplemental to the scope described above may be requested by the City, as needed, and additional cost estimates may be prepared to complete additional work as needed.

Mr. Di Renzo
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If both the proposed scope of work and budget estimates are acceptable, please submit an email approval or purchase order for our file to authorize DBS&A to conduct this work.

Closing

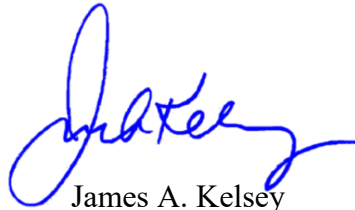
Thank you for the opportunity to support the City of Watsonville. If you have any questions please contact John Dodge at (714) 747-9456.

Sincerely,

DANIEL B. STEPHENS & ASSOCIATES, INC.



John J. Dodge, PG, CHG
Principal Hydrogeologist



James A. Kelsey
Principal Geologist
President

Table 1. Cost Estimate
City of Watsonville, CA
Offsite Area

TASK:			Potable Water Injections		Semi-Annual Monitoring (Field 1Q23)		Semi-Annual Monitoring (Field 3Q23)		Semi-Annual Monitoring (Report 1Q23)		Semi-Annual Monitoring (Report 3Q23)		Full-scale Design		Project Management		TOTAL			
Labor																				
STAFF CATEGORY			RATE (\$/hr)	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	
Principal Professional I			JJD \$ 254	40	\$ 10,160	2	\$ 508	2	\$ 508	12	\$ 3,048	12	\$ 3,048	24	\$ 6,096	24	\$ 6,096	116	\$ 29,464	
Senior Professional I			GS \$ 225		\$ -		\$ -		\$ -	4	\$ 900	4	\$ 900		\$ -		\$ -	8	\$ 1,800	
Project Professional I			HE \$ 187	50	\$ 9,350	8	\$ 1,496	8	\$ 1,496	24	\$ 4,488	24	\$ 4,488	16	\$ 2,992		\$ -	130	\$ 24,310	
Staff Professional III			HH/MV \$ 145	50	\$ 7,250	16	\$ 2,320	16	\$ 2,320	80	\$ 11,600	80	\$ 11,600		\$ -		\$ -	242	\$ 35,090	
Staff Professional II			\$ 135		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -	
Sr. Technical Editor/Assistant			RF \$ 135		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -	
CADD/GIS			\$ 150		\$ -		\$ -		\$ -	8	\$ 1,200	8	\$ 1,200		\$ -		\$ -	16	\$ 2,400	
Labor Subtotal				140	\$ 26,760	26	\$ 4,324	26	\$ 4,324	128	\$ 21,236	128	\$ 21,236	40	\$ 9,088	24	\$ 6,096	512	\$ 93,064	
Expenses			MARKUP	UNIT FEE	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost		
			0%			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		
Misc Safety Supplies/week				\$ 25	1	\$ 25	1	\$ 25	1	\$ 25	1	\$ 25	1	\$ 25		\$ -		\$ 5	\$ 125	
Flights LAX/OC-SJC			estim	\$ 350	2	\$ 700		\$ -		\$ -		\$ -		\$ -		\$ -		\$ 2	\$ 700	
Hotel/day			estim	\$ 175	4	\$ 700		\$ -		\$ -		\$ -		\$ -		\$ -		\$ 4	\$ 700	
Field vehicle/day			estim	\$ 150	3	\$ 450		\$ -		\$ -		\$ -		\$ -		\$ -		\$ 3	\$ 450	
Subtotal						\$ 1,875		\$ 25		\$ 25		\$ 25		\$ 25		\$ -		\$ -	\$ 1,975	
Subcontractors			MARKUP	UNIT FEE	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost		
			7%			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		
Traffic Control						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		
Field Setup/breakdown/day						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		
Laurel St. area MW-9				\$ 1,950	1	\$ 1,950		\$ -		\$ -		\$ -		\$ -		\$ -		\$ 1	\$ 1,950	
Broadis St area PMW-2R				\$ 1,950	1	\$ 1,950		\$ -		\$ -		\$ -		\$ -		\$ -		\$ 1	\$ 1,950	
MW-11R area				\$ 1,950	1	\$ 1,950		\$ -		\$ -		\$ -		\$ -		\$ -		\$ 1	\$ 1,950	
						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		
SESI Utility Clearance						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		
Field and point survey				\$ 2,462	1	\$ 2,462		\$ -		\$ -		\$ -		\$ -		\$ -		\$ 1	\$ 2,462	
						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		
Calvada Surveying						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		
PMW-2R, soil borings			1	\$ 3,500		\$ -		\$ -		\$ -		\$ -		\$ -	1	\$ 3,500		\$ -	\$ 1	\$ 3,500
						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		
Eurofins Calscience						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		
Groundwater samples VOCs 8260B (11 wells+FB/EB/DUP)				\$ 80		\$ -	13	\$ 1,040	11	\$ 880		\$ -		\$ -		\$ -		\$ 24	\$ 1,920	
Summa TO-15 (w-FB/EB/DUP)				\$ 170		\$ -	20	\$ 3,400	16	\$ 2,720		\$ -		\$ -		\$ -		\$ 36	\$ 6,120	
Canisters/Flow Controllers/Waste Mgt				\$ 2,843		\$ -	0.5	\$ 1,422	0.5	\$ 1,422		\$ -		\$ -		\$ -		\$ 1	\$ 2,843	
						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		
						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		
Regenesis						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		
Proposal June 2021 DVT Testing 6/13/22 Phase 2				\$ 23,803	1	\$ 23,803		\$ -		\$ -		\$ -		\$ -		\$ -		\$ 1	\$ 23,803	
Potable water injections MW-9, PMW-2R, MW-11R areas						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		
						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		
Blaine Tech						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		
Groundwater/vapor sampling/event 1Q23				\$ 7,410		\$ -	1	\$ 7,410		\$ -		\$ -		\$ -		\$ -		\$ 1	\$ 7,410	
Groundwater/vapor sampling/event 3Q23				\$ 3,035		\$ -		\$ -	1	\$ 3,035		\$ -		\$ -		\$ -		\$ 1	\$ 3,035	
						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		
Field/Labor contingency				10%		\$ 3,211.42		\$ 1,327.15		\$ 805.65		\$ -		\$ -		\$ 350.00		\$ -	\$ 5,694	
Subtotal						\$ 35,326		\$ 14,599		\$ 8,862		\$ -		\$ -		\$ 3,850		\$ -	\$ 62,636	
Markup						\$ 2,473		\$ 1,022		\$ 620		\$ -		\$ -		\$ 270		\$ -	\$ 4,385	
Subtotal w/markup						\$ 37,798		\$ 15,621		\$ 9,483		\$ -		\$ -		\$ 4,120		\$ -	\$ 67,021	
Task Total:						\$ 66,433		\$ 19,970		\$ 13,832		\$ 21,261		\$ 21,261		\$ 13,208		\$ 6,096	\$ 162,060	