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Irvine, California 92618  
tel: 949 930-7258

May 12, 2025

Diego Colorado, PE  
Project Manager  
Coachella Valley Water District  
Engineering Department  
75515 Hovley Lane East  
Palm Desert, California 92211

Subject: WRP 10 Headworks Improvement Project – Amendment No. 3

Dear Mr. Colorado:

CDM Smith is committed to finalizing the Design of the subject project, and in response to your request for the preparation of the design for a Consolidated Odor Control Facility and the Air Dispersion Model to obtain the construction permit from South Coast Air Quality Management District (SCAQMD) we are presenting below the scope of work and fee for these additional services.

***Item 1 - Consolidated Odor Control Facilities***

***Cost: \$140,920***

Additional analysis of odor control options including sizing of proposed biotrickling filter tower(s) to accommodate foul air treatment at the existing screening building. This includes providing additional space for odor control facilities (“Future Odor Control”), analysis and design for associated above-ground piping and supports (“Future Foul Air Duct”), and additional analysis and design of HVAC improvements to the existing screening building based on air change requirements and HVAC system design criteria. This also includes demolition of one (1) of the existing on-site scrubbers. This scope of work will be incorporated into construction documents as an optional bid item.

**Assumptions:**

- The contract documents will include one bid item alternate to facilitate selecting a partial or complete project scope following bid opening.
- Total additional sheet count is estimated at eighteen (18) structural, process mechanical, instrumentation, electrical, and HVAC sheets for the odor control consolidation.
- The consolidated odor control facility will be re-designed to account for the replacement of the existing odor control facility that serves the existing screening room.



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- The design will include the identification of the location of the consolidated odor control facility to facilitate the future demolition of the odor control equipment that currently serves the septage receiving facility.
- Includes modifications and updates to existing sheets including general sheets, Demolition sheets, electrical sheets, and instrumentation & control sheets. Only necessary instrumentation and controls for the new system are included.
- CDM Smith will provide control narratives for the equipment that is not vendor provided (Refer to Spec Section 406196, those instruments will connect to PLC-WRP10 directly only).
- The vendor's PLCs are as indicated in the 60% design drawings including the Network Diagram GI-4; two (2) PLCs for Bar Screens Control PLC-SCR1&2; two (2) PLCs for Grit Classifiers PLC-GCR1&2; and two (2) PLCs for Odor Controls PLC-OC1&2. The vendors will provide their control panel PLC and OIT programming, as well as the control narratives of their equipment.
- The Contractor's Integrator will integrate vendor's PLCs into the new PLC-WRP10 as indicated in the Network Diagram (see 60% drawing GI-4). Contractor's Integrator shall program the PLC-WRP10 and HMI-WRP10 to display all I/O signals, alarms, displays, and trends from PLC-WRP10 and all vendor's PLCs.
- The District's Integrator will be responsible to integrate PLC-WRP10 to the SCADA system (Refer to the upstream SCADA tie-in point at Network Diagram GI-14).
- CDM Smith is not providing any upgrades to the existing SCADA system.
- Repairs, maintenance, or upgrades to existing odor control systems outside of the specified odor control consolidation scope of work is excluded.
- Major structural modifications beyond what is required to support the new odor control system and appurtenances are excluded. General facility HVAC upgrades are excluded unless directly related to odor control.

### ***Item 2 – Air Dispersion Modeling***

***Cost: \$50,000***

CDM Smith will meet with South Coast Air Quality Management District (SCAQMD) to confirm the need for a dispersion model to obtain the construction permit for the new consolidated odor control facility. If the air model is required, CDM Smith will conduct an Air Dispersion Model using

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the USEPA AERMOD model. Source emissions and stack parameter data will be obtained from the odor control system design developed under Item 1 - Optional Bid Item (Consolidated Odor Control) noted above. The analysis will follow SCAQMD air dispersion modeling guidelines and will include the use of hourly meteorological data, actual terrain data, and appropriate receptor locations. The modeling results will be compared to the California H<sub>2</sub>S ambient air quality standard and/or an appropriate odor unit (D/T) threshold value.

Assumptions:

- The air dispersion model will be required for the new odor control facility (single source model) only, and will not include a model that covers the entire plant.

These additional services will be included incorporated into the final design in accordance with the following:

1. Amendment 3 is for a total of \$190,920
2. Complete the 90% and Final Design under an accelerated schedule.
3. The 90% submittal will be completed in three (3) months after the approval of the Amendment to include the additional scope of work.
4. The Final Design will be completed in one (1) month after we receive District's written comments on the 90% design

Per your request we have updated the WBS - Task Budget Table (Attachment A), and is attached to this document to outline the new proposed budgets and the adjustment to previous budgets by reallocation for the completion of the project. Attachment B present a summary of the level of effort to complete each task listed on the Amendment No. 3.

CDM Smith is committed and ready to start work immediately after receiving written authorization for the additional work from CVWD. If you have any further questions please contact Keenan Bull, Project Manager, at 949-930-7258 or at [bullke@cdmsmith.com](mailto:bullke@cdmsmith.com).



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Sincerely,  
CDM Smith Inc.

A handwritten signature in blue ink, appearing to read "DEB Ebersold".

David B. Ebersold  
Senior Vice President

A handwritten signature in blue ink, appearing to read "Alberto Acevedo".

Alberto Acevedo, PE, PMP, BCEE  
Vice President

Attachments:

Attachment A – Updated WBS Summary

Attachment B – Level of Effort

cc: Armando Rodriguez, PE  
Sameet Master, PE  
Michael Higuchi, PE  
Keenan Bull, PE, PMP



COACHELA VALLEY WATER DISTRICT  
WRP-10 HEADWORKS IMPROVEMENTS PROJECT  
ATTACHMENT A  
Amendment No. 3

5/12/2025

Task No.	Task Description	Approved Budget (1)	Amendment No. 3	Budget Reallocation	Proposed Budget	Invoiced to date	Remaining Budget	% Invoiced to date
1	Project Management	\$ 189,460.00	\$ -	\$ 10,000.00	\$ 199,460.00	\$ 122,488.98	\$ 76,971.02	61.41%
2	Project Meetings (2)	\$ 77,400.00	\$ -	\$ 2,800.00	\$ 80,200.00	\$ 72,369.60	\$ 7,830.40	90.24%
3	Preliminary Design report (PDR)	\$ 346,867.00		\$ -	\$ 346,867.00	\$ 346,859.98	\$ 7.02	100.00%
4	Basis of Design Report (BDR)	\$ 97,260.00		\$ -	\$ 97,260.00	\$ 65,542.00	\$ 31,718.00	67.39%
5	Drawing and Specifications	\$ 717,730.00	\$ 140,920.00	\$ (12,800.00)	\$ 845,850.00	\$ 232,131.20	\$ 613,718.80	27.44%
6	Cost Estimates	\$ 56,240.00		\$ -	\$ 56,240.00	\$ 39,970.00	\$ 16,270.00	71.07%
7	Permitting	\$ 81,675.00			\$ 81,675.00	\$ 980.00	\$ 80,695.00	1.20%
8	Bidding Support (3)	\$ 26,880.00		\$ -	\$ 26,880.00	\$ -	\$ 26,880.00	0.00%
9	Air Dispersion Modeling	\$ -	\$ 50,000.00		\$ 50,000.00	\$ -	\$ 50,000.00	0.00%
10	Amendment No.1	\$ 8,320.00		\$ -	\$ 8,320.00	\$ 7,420.00	\$ 900.00	89.18%
Total=		\$ 1,601,832.00	\$ 190,920.00	\$ -	\$ 1,792,752.00	\$ 887,761.76	\$ 904,990.24	49.52%

Notes:

(1) Includes Amendment No. 2 proposed budgets for Task 4 and 5

(2) Includes: eight (8) Bi-Weekly Meetings; one (1) intermediate design (75% TO 80%) workshop; one (1) 90% Submittal Workshop; and a Final Design Workshop

(3) Preparation of Conformed drawings is not included

(4) CDM confirms that the revised budget proposed in the above Table will be sufficient to cover the remaining work to complete the design. For example Project Meetings even though the task is shown to be spent at 74%, the proposed revised budget will be sufficient to cover the meetings necessary to complete the project and work within scope and no additional funding will be requested.

**ATTACHMENT B - LEVEL OF EFFORT**  
**Cost for Engineering Services (Amendment No. 3)**  
**Coachella Valley Water District**  
**Water Reclamation Plant No. 10 Headworks Improvement Project**  
**Project ID: WR1042**  
**CDM SMITH**

5.12.2025

Category		Principal - In-Charge Alberto	Project Manager Bui, Keenan	Technical Review Abi-Salma, Basam	Technical Lead Meyer, Travis	Lead Project Admin Van Loggheenberg, Amanda	Odor Control Lead Woo, Melissa	Odor Control Choudhury, Rashmi	Electrical Engineer Lead Memarzadeh, Shirley	Electrical Engineer Vorachitt, Sahant	Instrumentation & Controls April, Giles	Instrumentation & Controls Liu, Bryan	Instrumentation & Controls Zhong, Yang	Structural Lead Chu, Ronnie	Structural Lead Wan, Xia	Air Quality Permitting Penson, John	Air Quality Permitting Pham, Nicholas	Bldg Mech Lead Ibrahim, Saad Y	Sr BIM Kate, Hemant	Sr BIM Rajendran, K	Jr BIM Ray, Kanika	Jr BIM Elangoan, M.	Jr BIM Mistry, Puwang	Total Hours	Subtotal: CDM Labor Cost	Other Direct Cost	Total Cost	
Billing Rates		\$330	\$280	\$320	\$220	\$150	\$200	\$140	\$200	\$125	\$260	\$150	\$245	\$150	\$150	\$280	\$125	\$235	\$140	\$140	\$100	\$100	\$100					
1.0 Consolidated Odor Control Facilities																												
1.1A	Project Management	7	10	16	6		2	3															39	\$ 11,480	\$ -	\$ 11,480		
1.2A	Project Meetings	1	2		2																		10	\$ 2,080	\$ -	\$ 2,080		
1.3A	90% Design (Dwgs & Specifications)		-				4	27	33	36	4	30	48	28	32			100	28	4	56		172	602	\$ 92,760	\$ -	\$ 92,760	
1.4A	Final Design (Dwgs & Specifications)		-					16	19	16		4	24	16	8	12		24	16		16	40	16		227	\$ 34,600	\$ -	\$ 34,600
Total: Consolidated Odor Control Facilities		8	12	16	8	-	6	46	52	52	8	54	64	36	44			124	44	4	72	40	188	877	\$ 140,919	\$ -	\$ 140,920	
3.0 Air Dispersion Modeling																												
3.1A	AGMD Coordination	2	8		4	4										16	12						46	\$ 10,260	\$ -	\$ 10,260		
3.2A	Dispersion Model Development	2	12	6	16	8	20	25	-	-	-	-	-	-	-	40	84	-	-	-	-	-	-	213	\$ 39,740	\$ -	\$ 39,740	
Total: Air Dispersion Modeling		3	20	6	20	12	20	25	-	-	-	-	-	-	-	56	96	-	-	-	-	-	-	258	\$ 50,001	\$ -	\$ 50,000	
Project Subtotals (Tasks 1 and 2)		11	32	22	28	12	26	71	52	52	8	54	64	36	44	56	96	124	44	4	72	40	188	1,135	\$ 190,920	\$ -	\$ 190,920	
Project Totals (Tasks 1 and 2)																											\$ 190,920	