

# Central Basin Municipal Water District

## Water Quality Protection Plan Shutdown Project

Engineer's Opinion of Probable Cost

ENR: 8924

Los Angeles Construction Cost

Jul-06

Bid Item	Size	Description	Unit Cost	Quantity	
<b>00500 CONTRACTING REQUIREMENTS</b>					
00610		Bonds	1.70%	1 LS	\$2,900
00620		Builders All Risk Insurance	0.94%	1 LS	\$1,600
00890		Permits	1.00%	1 LS	\$1,700
<b>01000 GENERAL REQUIREMENTS</b>					
01321		Preconstruction Photographs	\$1,773	1 LS	\$1,773
01323		Scheduling	1.00%	1 LS	\$1,700
01500		Mobilization	3.02%	1 LS	\$5,100
01500		Demobilization	1.11%	1 LS	\$1,900
01560		Temporary Barriers and Enclosures	\$21.10	200 LF	\$4,220
01564		Remove Chain Link Fence and Gate at Well No. 1	\$6.00	120 LF	\$720
01564		Remove Chain Link Fence and Gate at Well No. 2	\$6.00	286 LF	\$1,716
01564		Remove Chain Link Fence at Flouridation Electrical at WTF	\$10.00	75 LF	\$750
01740		SWPPP Polution Control	1.83%	1 LS	\$3,100
01740		Cleaning	0.30%	1 LS	\$500
<b>02000 SITEWORK</b>					
02060		Gravel	\$34.00	10 CY	\$340
02065		Cement Slurry Backfill	\$110	10 CY	\$1,100
02115	40 gal	Underground Storage Tank Removal at Flouridation Bldg at WTF	\$400	1 ea	\$400
02220		Electrical Demolition at Wells Nos. 1 and 2	\$1,500	2 ea	\$3,000
02220		Electrical Demolition at WTF	\$2,500	1 LS	\$2,500
02221	250 SF	Wood Frame Building Demolition	\$700	1 ea	\$700
02221	8 in	Flouridation Building Floor/Foundation Removal at WTF	\$2.00	250 SF	\$500
02221		Eyewash Demolition at Flouridation Bldg at WTF	\$400	1 LS	\$400
02221	100 SF	Mechanical Piping and Equipment Demolition at Wells Nos. 1 and 2	\$1,200	2 ea	\$2,400
02221	250 SF	Flouridation Equipment Demolition at WTF	\$1,455	1 ea	\$1,455
02221		Backflow Preventer Demolition at GAC Vessels at WTF	\$500	1 ea	\$500
02221	2844 SF	Mechanical Equipment Demolition at GAC Vessels at WTF	\$33,000	1 ea	\$33,000
02221	100 SF	Mechanical Equipment Demolition at Bypass to Channel at WTF	\$600	1 ea	\$600
02221		Wellhead Piping Demolition at Wells Nos. 1 and 2	\$500	2 ea	\$1,000
02221		Remove Pump and Column Piping at Wells Nos. 1 and 2	\$5,000	2 ea	\$10,000
02223		Well No. 1 and Well No. 2 Destruction per DHS Requirements	\$10,000	2 LS	\$20,000
02223	60 in	Wellhead Concrete Removal at Well No. 1	\$13.00	36 SF	\$468
02223	60 in	Wellhead Concrete Removal at Well No. 2	\$13.00	36 SF	\$468
02223	12 in	Concrete Pad Removal at Wells Nos. 1 and 2	\$3.00	372 SF	\$1,116
02223	12 in	Concrete Pad Removal at Flouridation Electrical at WTF	\$3.00	50 SF	\$150
02223	18 in	Concrete Pad Removal at GAC Vessels at WTF	\$4.00	2844 SF	\$11,376
02223	6 in	Concrete Pad Removal at Flow Control Slab at WTF	\$2.00	68 SF	\$136
02223	6 in	Concrete Pad Removal at RPPBP Slab at WTF	\$2.00	28 SF	\$56
02223	4 in	Concrete Sidwalk Removal at Flouridation Bldg at WTF	\$1.00	186 SF	\$186
02223		Remove and Fill Guard Posts at Wells Nos. 1 and 2	\$250	2 ea	\$500
02280		Abandoning Miscellaneous Buried Structures	\$2,355	2 ea	\$4,710
02515		Cut and Plug Existing Waterline at Well No. 1	\$1,800	1 ea	\$1,800
02515		Cut and Plug Existing Waterline at Well No. 2	\$1,800	1 ea	\$1,800
02515		Cut and Plug Existing 12" Waterline at WTF	\$1,800	1 ea	\$1,800
02515		Cut and Plug Existing 16" Waterline at WTF	\$2,000	1 ea	\$2,000
02515		Cut and Plug Existing 24" Supply Line at WTF	\$2,500	2 ea	\$5,000
02515		Cut and Plug Existing 8" Backwash Supply Line at WTF	\$2,000	3 ea	\$6,000
02535		Cut and Plug Sewer or Manhole Outlet	\$1,857	2 ea	\$3,714
15056	12 in	Blind Flange	\$503	1 ea	\$503
15056	16 in	Blind Flange	\$844	1 ea	\$844
15056	24 in	Blind Flange	\$1,753	2 ea	\$3,506
17000		<b>ALL OTHER WORK</b>	10.00%	1 LS	\$16,900

<b>ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST</b>	<b>\$168,607</b>
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Right of Way and Land Acquisition	not included
Design Engineering	\$25,000
Inspection Services	\$15,000
Contingency	15%
Calgon Demobilization Fee (1)	\$52,900

<b>ENGINEER'S OPINION OF PROBABLE TOTAL COST</b>	<b>\$286,898</b>
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These figures have been prepared, at the request of a client, before finalizing Contract Documents. Figures are only an opinion and are provided solely as a guide. Daniel Boyle Engineering, Inc. is not responsible for fluctuation in cost of material, labor or components or unforeseen contingencies.

(1) Includes budget of \$2,500 for Calgon operations technician on a per diem basis for one week to supervise dismantling of equipment.