

FEE PROPOSAL FOR: Engineering Services for Calas Park Stormwater and Water Quality Improvements Supplemental Environmental Project



Contract Type: Fixed Price by Deliverable Design of the regional stormwater capture project at Calas Park in Carson, CA

Task Description	CRAFTWATER ENGINEERING INC										SUBCONTRACTORS (10% MARKUP)					TOTAL EFFORT
	Principal (Oliver Galang, PE)	Project Administrator (Rachel McFerrin)	Project Manager (Courtney Semlow, PE)	Senior Engineer /Hydrologist (Thom Epps, PhD)	Associate Engineer (Andrew Takahashi, PE)	Junior Engineer (Ethan Morgan)	Prin Landscape Architect (James Powell, PLA, ASLA)	Landscape Designer	Total Labor Hours	Total Labor Effort	Subcontracts (Dudek)	Subcontracts (Black and Veatch)	Subcontracts (Ninyo & Moore)	Subcontracts (C Below)	Total Subconsultant	
Billing Rates	279	168	247	230	190	154	236	145								
Task 1. Project Administration and Coordination																
Task 1.1 Kick-Off Meeting	1		2		5				8	1,723	-	-	-	-	-	1,723
Task 1.2 Project Coordination	2		8		4		4		18	4,238	-	-	-	-	-	4,238
Task 1.3 Progress Meetings	4		12		12	18			46	9,132	-	-	-	-	-	9,132
Task 1.4 Project Administration		24	12						36	6,996	-	-	-	-	-	6,996
SUBTOTAL Task 1. Project Administration and Coordination	7	24	34	-	21	18	4	-	108	22,089	-	-	-	-	-	22,089
Task 2. Data Gathering and Concept Evaluation																
Task 2.1 SEP Workplan Review	1		2		4				7	1,533	-	-	-	-	-	1,533
Task 2.2 Concept Plan Review	1		4		8				13	2,787	-	-	-	-	-	2,787
Task 2.3 Field Investigations			4		4	4	4		16	3,308	-	2,464	-	-	2,464	5,772
Task 2.4 Records Research			1		4	8			13	2,239	-	3,300	-	-	3,300	5,539
Task 2.5 Utility Search			1		2	8			11	1,859	-	-	-	-	-	1,859
SUBTOTAL Task 2. Data Gathering and Concept Evaluation	2	-	12	-	22	20	4	-	60	11,726	-	5,764	-	-	5,764	17,490
Task 3. Preliminary Engineering Study																
Task 3.1 Survey (Boundary, Topographic, and Utility)			2		16	50			68	11,234	35,200	-	-	-	35,200	46,434
Task 3.2 Pothole Exhibit			1		1	8			10	1,669	-	-	-	-	-	1,669
Task 3.3 Potholing Investigation					4	8			12	1,992	-	-	-	15,000	15,000	16,992
Task 3.4 Geotechnical Investigation			1		4				5	1,007	-	-	37,307	-	37,307	38,314
Task 3.5 Soil Analysis			2						2	494	-	-	5,280	-	5,280	5,774
Task 3.6 Hydrologic and Hydraulic Evaluation	1		8	16	30	60			115	20,875	-	-	-	-	-	20,875
Task 3.7 Water Conservation Assessment	1		4	8	12	30			55	10,007	-	-	-	-	-	10,007
SUBTOTAL Task 3. Preliminary Engineering Study	2	-	18	24	67	156	-	-	267	47,278	35,200	-	42,587	15,000	92,787	140,065
Task 4. Basis of Design Report (BoDR)																
Task 4.1 Basis of Design Report (BoDR)	1		16	24	100	160			301	53,391	-	-	-	-	-	53,391
Task 4.2 Design Workshop			2		2	4			8	1,490	-	-	-	-	-	1,490
SUBTOTAL Task 4. Basis of Design Report (BoDR)	1	-	18	24	102	164	-	-	309	54,881	-	-	-	-	-	54,881
Task 5. Plans and Specifications																
Task 5.1 Plans	1		30		250	450			731	124,489	-	96,570	-	-	96,570	221,059
Task 5.2 Specifications	1		8		16	40	4	24	93	15,879	-	9,900	-	-	9,900	25,779
Task 5.3 Local Utility Coordination			4		8				12	2,508	-	-	-	-	-	2,508
Task 5.4 LA Sanitation Review			2		8				10	2,014	-	-	-	-	-	2,014
Task 5.5 Design Calculations	1				8	40			49	7,959	-	-	-	-	-	7,959
Task 5.6 Landscape Design			1		8		40	280	329	51,807	-	-	-	-	-	51,807
Task 5.7 Engineer's Opinion of Probable Construction Costs (EOPCC)	1		4		12	40		4	61	10,287	-	-	-	-	-	10,287
Task 5.8 Construction Schedule	1		6						7	1,761	-	-	-	-	-	1,761
SUBTOTAL Task 5. Plans and Specifications	5	-	55	-	310	570	44	308	1,292	216,704	-	106,470	-	-	106,470	323,174
Task 6. CEQA and Permitting																
Task 6.1 Permit Support			2		12	20			34	5,854	-	2,156	-	-	2,156	8,010
Task 6.2 CEQA Environmental Investigation			2		4				6	1,254	77,594	-	-	-	77,594	78,848
SUBTOTAL Task 6. CEQA and Permitting	-	-	2	-	4	-	-	-	6	7,108	77,594	2,156	-	-	79,750	86,858

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Task 7. Stakeholder and Community Outreach/Engagement																
Task 7.1 Outreach Materials			1		8	24			33	5,463	-	-	-	-	-	5,463
SUBTOTAL Task 7. Stakeholder and Community Outreach/Engagement	-	-	1	-	8	24	-	-	33	5,463	-	-	-	-	-	5,463
Task 8. Operations, Maintenance and Monitoring																
Task 8.1 Operations and Maintenance Manual			2		8	32			42	6,942	-	-	-	-	-	6,942
Task 8.2 Post-Construction Monitoring Plan			2		8	24			34	5,710	-	-	-	-	-	5,710
Task 8.3 Annual Cost Estimate for O&M and Monitoring			1		2	4			7	1,243	-	-	-	-	-	1,243
SUBTOTAL Task 8. Operations, Maintenance and Monitoring	-	-	5	-	18	60	-	-	83	13,895	-	-	-	-	-	13,895
Task 9. Bid Support																
Task 9.1 Bid Support	1		2		8	8			19	3,525	-	4,554	-	-	4,554	8,079
Task 9.2 Pre-Bid Meeting and Walkthrough			4		8				12	2,508	-	-	-	-	-	2,508
SUBTOTAL Task 9. Bid Support	-	-	4	-	8	-	-	-	12	6,033	-	4,554	-	-	4,554	10,587
Task 10. Construction Support																
Task 10.1 Construction Support Services	1		4		20	40	2	24	91	15,179	-	10,753	-	-	10,753	25,932
Task 10.2 Construction General Permit Support	1		4		8	16			29	5,251	-	-	-	-	-	5,251
Task 10.3 Field Visits			4		8				12	2,508	-	2,816	-	-	2,816	5,324
Task 10.4 As-Built Preparation			2		12	40			54	8,934	-	-	-	-	-	8,934
SUBTOTAL Task 10. Construction Support	2	-	14	-	20	56	2	24	120	22,938	-	10,753	-	-	13,569	45,441
DESIGN SERVICES TOTAL (Not-to-Exceed)	20	24	167	48	628	1,136	54	332	2,409	417,049	112,794	132,513	42,587	15,000	302,893	719,942