

Exhibit B.1
Labor Hour Breakdown and Fee Estimate

Washoe County, Nevada
Pleasant Valley Interceptor Reach 3
Detailed Design, Permitting, and Bid Period Services



Task	Subtask	Activity Description	Labor Category							Total Hours	Labor Cost	Other Direct Cost (ODC) Details						Total ODC's	Total Project Budget
			Senior Professional	Lead Project Professional	Project Professional	Professional	Assistant Professional	Senior Technician	DP/Clerical			PECE	Travel and Subsistence	Mileage	Subs	Subs +10%	Printing		
			\$250	\$231	\$212	\$196	\$155	\$117	\$99			\$11.70							
1.0		PROJECT MANAGEMENT AND MEETINGS	86	144	0	0	0	0	32	262	\$ 57,932	\$ 3,065	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,065	\$ 60,997
	1.1	Project Administration	10	120	0	0	0	0	16	146	\$ 31,804	\$ 1,708	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,708	\$ 33,512
	1.2	Project Meetings	16	24	0	0	0	0	16	56	\$ 11,128	\$ 655	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 655	\$ 11,783
	1.3	Quality Management	60	0	0	0	0	0	0	60	\$ 15,000	\$ 702	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 702	\$ 15,702
2.0		DETAILED DESIGN, CONTRACT DOCUMENT PREPARATION AND PERMITTING	305	298	6	539	1,339	793	52	3,332	\$ 537,252	\$ 38,984	\$ -	\$ 3,760	\$ 30,500	\$ 33,550	\$ 200	\$ 76,494	\$ 613,746
	2.1	Detailed Design to 60% Complete Level (Plan Set No.'s 1 and 2)	122	66	0	172	549	358	12	1,279	\$ 207,627	\$ 14,964	\$ -	\$ 2,000	\$ 27,000	\$ 29,700	\$ -	\$ 46,664	\$ 254,291
	2.1.1	Civil Engineering, Pipeline Design, Landscape Architecture Design and Potholing	16	16	0	120	0	160	8	320	\$ 50,728	\$ 3,744	\$ -	\$ -	\$ 27,000	\$ 29,700	\$ -	\$ 33,444	\$ 84,172
	2.1.2	Structural Engineering Design	14	0	0	44	186	128	0	372	\$ 55,930	\$ 4,352	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,352	\$ 60,282
	2.1.3	Architectural Design	0	25	0	8	100	0	0	133	\$ 22,843	\$ 1,556	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,556	\$ 24,399
	2.1.4	Mechanical Engineering Design	22	0	0	0	88	0	0	110	\$ 19,140	\$ 1,287	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,287	\$ 20,427
	2.1.5	Electrical and Control/Instrumentation Engineering Design	70	25	0	0	175	70	4	344	\$ 58,986	\$ 4,025	\$ -	\$ 2,000	\$ -	\$ -	\$ -	\$ 6,025	\$ 65,011
	2.2	Detailed Design to the 95% Complete Level (Plan Set No.'s 1 and 2)	64	47	0	112	310	226	10	769	\$ 124,291	\$ 8,997	\$ -	\$ 1,760	\$ 3,000	\$ 3,300	\$ -	\$ 14,057	\$ 138,348
	2.2.1	Civil Engineering, Pipeline Design, and Landscape Architecture	16	16	0	80	0	120	8	240	\$ 38,208	\$ 2,808	\$ -	\$ -	\$ 3,000	\$ 3,300	\$ -	\$ 6,108	\$ 44,316
	2.2.2	Structural Engineering Design	8	0	0	24	110	66	0	208	\$ 31,476	\$ 2,434	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,434	\$ 33,910
	2.2.3	Architectural Design	0	16	0	8	60	0	0	84	\$ 14,564	\$ 983	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 983	\$ 15,547
	2.2.4	Mechanical Engineering Design	10	0	0	0	40	0	0	50	\$ 8,700	\$ 585	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 585	\$ 9,285
	2.2.5	Electrical and Control/Instrumentation Engineering Design	30	15	0	0	100	40	2	187	\$ 31,343	\$ 2,188	\$ -	\$ 1,760	\$ -	\$ -	\$ -	\$ 3,948	\$ 35,291
	2.3	Detailed Design to the 100% Complete Level (Plan Set No.'s 1 and 2)	39	37	0	87	154	95	8	420	\$ 71,126	\$ 4,914	\$ -	\$ -	\$ 500	\$ 550	\$ -	\$ 5,464	\$ 76,590
	2.3.1	Civil Engineering, Pipeline Design, and Landscape Architecture	16	16	0	65	0	45	8	150	\$ 26,493	\$ 1,755	\$ -	\$ -	\$ 500	\$ 550	\$ -	\$ 2,305	\$ 28,798
	2.3.2	Structural Engineering Design	5	0	0	14	58	34	0	111	\$ 16,962	\$ 1,299	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,299	\$ 18,261
	2.3.3	Architectural Design	0	15	0	8	40	0	0	63	\$ 11,233	\$ 737	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 737	\$ 11,970
	2.3.4	Mechanical Engineering Design	4	0	0	0	16	0	0	20	\$ 3,480	\$ 234	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 234	\$ 3,714
	2.2.5	Electrical and Control/Instrumentation Engineering Design	14	6	0	0	40	16	0	76	\$ 12,958	\$ 889	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 889	\$ 13,847
	2.4	Hydraulic Analysis of the Design	2	4	6	24	56	26	6	124	\$ 19,716	\$ 1,451	\$ -	\$ -	\$ -	\$ -	\$ 200	\$ 1,651	\$ 21,367
	2.6.1	Hydraulic Model Update with 60-Percent Design	0	0	0	2	5	8	0	15	\$ 2,103	\$ 176	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 176	\$ 2,279
	2.6.2	Confirm 60-Percent Design Hydraulics	0	0	1	8	18	2	0	29	\$ 4,804	\$ 339	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 339	\$ 5,143
	2.6.3	60-Percent Hydraulic Modeling Project Memorandum	1	2	2	4	10	2	3	24	\$ 4,001	\$ 281	\$ -	\$ -	\$ -	\$ -	\$ 100	\$ 381	\$ 4,382
	2.6.4	Hydraulic Model Update with 95-Percent Design	0	0	0	2	5	8	0	15	\$ 2,103	\$ 176	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 176	\$ 2,279
	2.6.5	Confirm 95-Percent Design Hydraulics	0	0	1	4	8	4	0	17	\$ 2,704	\$ 199	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 199	\$ 2,903
	2.6.6	95-Percent Hydraulic Modeling Project Memorandum	1	2	2	4	10	2	3	24	\$ 4,001	\$ 281	\$ -	\$ -	\$ -	\$ -	\$ 100	\$ 381	\$ 4,382
	2.5	Project Permitting Assistance	8	32	0	0	32	40	16	128	\$ 20,616	\$ 1,498	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,498	\$ 22,114
	2.7.1	NDOT Right of Way Occupancy Permit	4	16	0	0	16	40	8	84	\$ 12,648	\$ 983	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 983	\$ 13,631
	2.7.2	City of Reno Special Use Permit	4	16	0	0	16	0	8	44	\$ 7,968	\$ 515	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 515	\$ 8,483
	2.6	Engineering Services During Construction	70	112	0	144	238	48	0	612	\$ 93,876	\$ 7,160	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,160	\$ 101,036
	2.6.1	Civil Engineering Services During Construction	8	16	0	120	0	48	0	192	\$ 29,216	\$ 2,246	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,246	\$ 31,462
	2.6.2	Structural Engineering Services During Construction	4	0	0	16	32	0	0	52	\$ 7,180	\$ 608	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 608	\$ 7,788
	2.6.3	Architectural Services During Construction	0	4	0	8	16	0	0	28	\$ 3,820	\$ 328	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 328	\$ 4,148
	2.6.4	Mechanical Engineering Services During Construction	10	0	0	0	30	0	0	40	\$ 6,000	\$ 468	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 468	\$ 6,468
	2.6.5	Electrical and Control/Instrumentation Engineering Services During Construction	48	92	0	0	160	0	0	300	\$ 47,660	\$ 3,510	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,510	\$ 51,170
3.00		DETAILED DESIGN OF RECLAIMED WATER SUPPLY IMPROVEMENTS	10	88	0	0	160	120	16	394	\$ 63,252	\$ 4,610	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,610	\$ 67,862
	2.4.1	Reclaimed Water System Improvements Planning and Coordination with Washoe County	2	16	0	0	24	0	4	46	\$ 8,312	\$ 538	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 538	\$ 8,850
	2.4.2	Preliminary Design of Reclaimed Water System Improvements	4	32	0	0	56	40	4	136	\$ 22,148	\$ 1,591	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,591	\$ 23,739
	2.4.3	Reclaimed Water System Design Development and Preparation of Construction Contract Documents	4	40	0	0	80	80	8	212	\$ 32,792	\$ 2,480	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,480	\$ 35,272
4.00		BROOKSIDE MOBILE HOME PARK WASTEWATER COLLECTION SYSTEM IMPROVEMENTS	10	112	0	0	272	0	0	394	\$ 70,532	\$ 4,610	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,610	\$ 75,142
	2.5.1	Identify Project Requirements	2	32	0	0	32	0	0	66	\$ 12,852	\$ 772	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 772	\$ 13,624
	2.5.2	Develop Preliminary Design	4	40	0	0	80	0	0	124	\$ 22,640	\$ 1,451	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,451	\$ 24,091
	2.5.3	Detailed Design and Construction Contract Document Preparation	4	40	0	0	160	0	0	204	\$ 35,040	\$ 2,387	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,387	\$ 37,427
5.0		BID PERIOD SERVICES	3	28	1	0	60	8	20	120	\$ 19,646	\$ 1,404	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,404	\$ 21,050
	3.1	Prebid Meeting	2	8	0	0	0	0	4	14	\$ 2,744	\$ 164	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 164	\$ 2,908
	3.2	Bid Addenda Preparation	0	8	0	0	32	0	8	48	\$ 7,600	\$ 562	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 562	\$ 8,162
	3.3	Review of Bids Received and Construction Contract Award Recommendation	1	2	1	0	8	0	0	12	\$ 2,164	\$ 140	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 140	\$ 2,304
	3.4	Construction Contract Award Recommendation	0	2	0	0	4	0	4	10	\$ 1,478	\$ 117	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 117	\$ 1,595
	3.5	Prepare Conformed Plans and Specifications	0	8	0	0	16	8	4	36	\$ 5,660	\$ 421	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 421	\$ 6,081
Project Totals			414	670	7	539	1,831	921	120	4,502	\$ 748,614	\$ 52,673	\$ -	\$ 3,760	\$ 30,500	\$ 33,550	\$ 200	\$ 90,183	\$ 838,797