

Attachment 6. Budget

Budget Table 1 below summarizes each work plan task, a budget line item estimate.

Budget Summary Table 1					
Budget Category			Non-State Share	Requested Grant Funding	Total
Task	SubTask	Title			
1.0	1.0	PM, Oversight, Reporting			
	1.1	PM and Meetings	\$ -	\$ 20,881	\$ 20,881
	1.2	Quarterly Reporting	\$ -	\$ 12,076	\$ 12,076
	1.3	Draft Report	\$ -	\$ 25,176	\$ 25,176
	1.3	Final Report	\$ -	\$ 6,555	\$ 6,555
	1.4	Grant Admin and Documentation	\$ -	\$ 7,834	\$ 7,834
	1.5	Public Outreach	\$ -	\$ 11,198	\$ 11,198
2.0		Data Evaluation			
	2.1	Data Compilation	\$ -	\$ 2,350	\$ 2,350
	2.2	Update HCM	\$ -	\$ 5,410	\$ 5,410
	2.3	Water Quality	\$ -	\$ 2,654	\$ 2,654
	2.4	Land Use/Ownership	\$ -	\$ 1,804	\$ 1,804
	2.5	Geophysical Survey	\$ -	\$ 16,132	\$ 16,132
	2.6	Environmental Check	\$ -	\$ 2,114	\$ 2,114
	2.7	Report for Drill Site	\$ -	\$ 3,203	\$ 3,203
3.0		Well Installation			
	3.1	Permitting, Access, CEQA	\$ -	\$ 15,122	\$ 15,122
	3.2	Work Plan and Contracting	\$ -	\$ 3,929	\$ 3,929
	3.3	Installation and Development	\$ -	\$ 46,329	\$ 46,329
	3.4	Surface Water Monitoring	\$ -	\$ 8,619	\$ 8,619
	3.5	Background	\$ -	\$ 1,790	\$ 1,790
	3.5	Step-Test	\$ -	\$ 2,453	\$ 2,453
	3.5	Constant Rate Test	\$ -	\$ 39,954	\$ 39,954
	3.5	Recovery	\$ -	\$ 2,472	\$ 2,472
4.0		Post Well Monitoring and Reporting			
	4.0	Monitoring events	\$ -	\$ 4,686	\$ 4,686
	4.0	Post Monitoring Reports	\$ -	\$ 7,187	\$ 7,187
Total:			\$ -	\$ 249,926	\$ 249,926

The attached Detailed Budget Table 2 (Att6_LGA12_Folsom_BUDGET_2of2) presents a detailed breakdown of costs to complete the proposed City of Folsom Supplemental Groundwater Resources Study. This table presents estimated labor costs, specialized subcontractor costs, equipment rental and mileage charges, and other direct costs (e.g permitting charges). Labor costs are broken down by labor category and include a fully burdened labor rate.

The tasks shown on the table correspond to tasks described in detail in the Work Plan (Attachment 5). The primary tasks include;

- Task 1.0 - Project Management and Oversight,
- Task 2.0 - Data Evaluation and Conceptual Model Update,
- Task 3.0 - Conduct Test Well Drilling, Construction, Sampling and Testing, and
- Task 4.0 - Monitoring Data and Reporting.

Each primary task is broken down into sub tasks to correspond to the work plan, and costs are provided for each sub task in labor hours or dollars for specialty subcontractors and expenses. Costs for this project were built up for each sub task based on technical assumptions that were developed during the scoping of the project. As costs were developed, the scope was modified so that proposed costs did not exceed the potential grant funding limit. In the case of this project for the City of Folsom, costs to conduct multiple aquifer tests, and to evaluate and plan for infrastructure improvements related to the test well were removed the proposal. These activities will be funded later by the City as part of on-going capital improvements.

The detailed labor estimates and expenses were developed as follows:

- The example project team includes a project manager, project administrator, and senior hydrogeologist, and junior geologist/hydrogeologist, a GIS technician, and a word processor. This example project team is similar to the team that performed Phase I work.
- Labor costs were developed using historical information from Phase I tasks, and experience on similar projects to establish assumptions and levels of effort. Assumptions for these costs are shown with each sub task in the work plan.
- Expenses were estimated by soliciting verbal Requests for Bids from drilling, equipment rental, geophysical, laboratory and land surveyor subcontractors. In some cases actual costs from Phase I (e.g. permitting) were used with a marginal increase for inflation since the work was completed in 2006.
- Mileage and other expenses were estimated based on estimated level of labor effort, location of site, and project experience.

As back up to this detailed estimate, we have also attached copies of several subcontractor bids and actual subcontractor invoices from the 2006 Phase I study. These documents include:

- Morrow Surveying
- Sequoia Analytical
- WDC Drilling, Inc.
- NorCal Geophysical Inc.

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		PM	Project Administrator	Chief Hydrogeologist	Junior Geologist	GIS/Graphics	Word Processor	Total Labor Hours	Total Labor Effort	EDR	Permits	Supplies	Transducer Rentals	Company Vehicles	Equipment	Geophysics	Driller	Laboratory	Surveying	Utility Clearance	Total Expense Effort	Total Effort
		\$165.85	\$96.97	\$221.92	\$85.31	\$114.44	\$84.93															
1.0	PM, Oversight, Reporting	264	90	28	180	52	34	648	82,920	0	0	500	0	300	0	0	0	0	0	0	800	83,720
1.1	PM and Meetings	90	40	8	0	0	0	138	20,581	0	0	0	0	300	0	0	0	0	0	0	300	20,881
1.2	Quarterly Reporting	20	0	0	80	8	12	120	12,076	0	0	0	0	0	0	0	0	0	0	0	0	12,076
1.3	Draft Report	80	0	8	80	20	12	200	25,176	0	0	0	0	0	0	0	0	0	0	0	0	25,176
1.3	Final Report	16	0	4	20	4	10	54	6,555	0	0	0	0	0	0	0	0	0	0	0	0	6,555
1.4	Grant Admin and Documentation	18	50	0	0	0	0	68	7,834	0	0	0	0	0	0	0	0	0	0	0	0	7,834
1.5	Public Outreach	40	0	8	0	20	0	68	10,698	0	0	500	0	0	0	0	0	0	0	0	500	11,198
2.0	Data Evaluation	54	0	4	88	24	2	172	20,267	1,100	0	0	0	300	0	12,000	0	0	0	0	13,400	33,667
2.1	Data Compilation	8	0	0	12	0	0	20	2,350	0	0	0	0	0	0	0	0	0	0	0	0	2,350
2.2	Update HCM	8	0	4	16	16	0	44	5,410	0	0	0	0	0	0	0	0	0	0	0	0	5,410
2.3	Water Quality	16	0	0	0	0	0	16	2,654	0	0	0	0	0	0	0	0	0	0	0	0	2,654
2.4	Land Use/Ownership	4	0	0	8	4	0	16	1,804	0	0	0	0	0	0	0	0	0	0	0	0	1,804
2.5	Geophysical Survey	8	0	0	24	4	0	36	3,832	0	0	0	0	300	0	12,000	0	0	0	0	12,300	16,132
2.6	Environmental Check	2	0	0	8	0	0	10	1,014	1,100	0	0	0	0	0	0	0	0	0	0	1,100	2,114
2.7	Report for Drill Site	8	0	0	20	0	2	30	3,203	0	0	0	0	0	0	0	0	0	0	0	0	3,203
3.0	Well Installation	120	0	18	180	8	0	326	40,167	0	3,300	0	6,600	1,300	1,500	0	62,000	1,800	3,300	700	80,500	120,667
3.1	Permitting, Access, CEQA	40	0	8	40	0	0	88	11,822	0	3,300	0	0	0	0	0	0	0	0	0	3,300	15,122
3.2	Work Plan and Contracting	12	0	0	12	8	0	32	3,929	0	0	0	0	0	0	0	0	0	0	0	0	3,929
3.3	Installation and Development	20	0	0	40	0	0	60	6,729	0	0	0	0	300	500	0	33,000	1,800	3,300	700	39,600	46,329
3.4	Surface Water Monitoring	16	0	0	16	0	0	32	4,019	0	0	0	3,300	300	1,000	0	0	0	0	0	4,600	8,619
3.5	Background	4	0	2	8	0	0	14	1,790	0	0	0	0	0	0	0	0	0	0	0	0	1,790
3.5	Step-Test	8	0	2	8	0	0	18	2,453	0	0	0	0	0	0	0	0	0	0	0	0	2,453
3.5	Constant Rate Test	16	0	4	40	0	0	60	6,954	0	0	0	3,300	700	0	0	29,000	0	0	0	33,000	39,954
3.5	Recovery	4	0	2	16	0	0	22	2,472	0	0	0	0	0	0	0	0	0	0	0	0	2,472
4.0	Post Well Monitoring and Reporti	24	0	6	48	8	0	86	10,322	0	0	250	0	200	0	0	0	1,100	0	0	1,550	11,872
4.0	Monitoring events	8	0	2	16	0	0	26	3,136	0	0	250	0	200	0	0	0	1,100	0	0	1,550	4,686
4.0	Post Monitoring Reports	16	0	4	32	8	0	60	7,187	0	0	0	0	0	0	0	0	0	0	0	0	7,187
GRAND TOTAL		462	90	56	496	92	36	1,232	153,676	1,100	3,300	750	6,600	2,100	1,500	12,000	62,000	2,900	3,300	700	96,250	249,926

Hours and Dollars are rounded to nearest whole number. To display decimals, change the format of the cells.