

Phoenix Lake IRWM Retrofit

Attachment 4 - Budget

1.0 General Overview of Budget

This Attachment presents the budget for the Phoenix Lake IRWM Retrofit. Included are detailed estimates of costs and funding sources for all five component projects comprising the Retrofit. Also included are summary budgets for all five projects and a summary budget for the whole Retrofit proposal.

2.0 Explanation of Budget Items in Detailed Project Budgets

Following are notes that provide explanations and rationale for the various budget items.

1. Budget category (a) Direct Project Administration costs are less than 5% of the individual project costs and the overall proposal cost. These costs have been generally allocated across the five projects according to the each project's proportion of the total proposal construction cost. Specific additional costs in this category, e.g., preparation of an MOA between FZ9 and MMWD, have been allocated according to the needs of the individual projects, as noted in Attachment 3, Workplan.
2. Budget category (b) Land Purchase/Easement has no cost because all proposal activities occur on property owned by MMWD; therefore, no land purchases or easements are needed.
3. Budget category (c) Planning/Design//Engineering/Environmental Documentation costs have been allocated according to the needs of the individual projects, except Environmental Documentation which has been allocated across the five projects according to the each project's proportionate share of the total proposal construction cost, as noted in Attachment 3, Workplan.

A contingency of 25% has been assigned to this category for all projects because all projects are currently at the Concept (30%) Design stage and no environmental review or permitting work has been completed, except for an initial, informal consultation regarding dam issues with DSOD. The contingency is intended to cover unforeseen requirements that might arise as the projects progress through further stages of design, environmental review, and permitting.

4. Budget category (d) Construction/Implementation costs have been allocated according to the needs of the individual projects, as noted in Attachment 3, Workplan.

Construction costs derive primarily from the estimated costs given in the Concept (30%) Design memoranda for the various projects as indicated in Attachment 3, Workplan.

5. Budget category (e) Environmental Compliance/Mitigation/Enhancement costs have been allocated according to the needs of the individual projects, as noted in Attachment 3, Workplan.

A contingency of 25% has been assigned to this category for all projects because all projects are currently at the Concept (30%) Design stage and no environmental review or permitting work, such as informal consultations with resource agencies, has been completed. The contingency is intended to cover unforeseen environmental compliance and mitigation requirements that might arise as the projects progress through further stages of design, environmental review, and permitting.

6. Budget category (f) Construction Administration costs have been allocated according to the needs of the individual projects, as noted in Attachment 3, Workplan.

Costs include labor (a melded staff rate of \$80 per hour) and resources that will be expended by FZ9 and MMWD staff to monitor field construction work and administer contracts.

3.0 Explanation of Budget Items in Summary Budgets

Following are notes that provide explanations and rationale for the various budget items.

1. The summary budgets show a 50%/50% funding match for all projects categories across all projects. The source of the Non-State share is the FZ9 drainage fee.
2. A contingency of 25% has been assigned to Construction/Implementation Contingency for all projects because all projects are currently at the Concept (30%) Design stage and no environmental review or permitting work, such as informal consultations with resource agencies, has been completed. The contingency is intended to cover unforeseen construction costs that might arise as the projects progress through further stages of design, environmental review, and permitting and any unlisted items not detailed in the construction cost estimate.

Table 1a Project Budget						
Proposal Title: <u>Phoenix Lake IRWM Retrofit</u>						
Project Title: <u>Flood Damage Reduction Project</u>						
Budgetary Category		(a)	(b)	(c)	(d)	(e)
		Non-State Share * (Funding Match)	Requested Grant Funding	Other State Funds Being Used	Total	% Funding Match
(a)	Direct Project Administration Costs	\$203,000	\$202,000	\$0	\$405,000	50%
(b)	Land Purchase/Easement	\$0	\$0	\$0	\$0	
I	Planning/Design/Engineering/Environmental Documentation	\$397,000	\$396,000	\$0	\$793,000	50%
(d)	Construction/Implementation	\$4,126,000	\$4,125,000	\$0	\$8,251,000	50%
(e)	Environmental Compliance/Mitigation/Enhancement	\$131,000	\$130,000	\$0	\$261,000	50%
(f)	Construction Administration	\$202,000	\$202,000	\$0	\$404,000	50%
(g)	Other Costs	\$0	\$0	\$0	\$0	
(h)	Construction/Implementation Contingency (25%)	\$1,032,000	\$1,031,000	\$0	\$2,063,000	50%
(i)	Grand Total	\$6,089,000	\$6,088,000	\$0	\$12,177,000	50%
* Non-State funding source: FZ9 drainage fee						

Table 1b Project Budget						
Proposal Title: <u>Phoenix Lake IRWM Retrofit</u>						
Project Title: <u>Water Supply Project</u>						
Budgetary Category		(a)	(b)	(c)	(d)	(e)
		Non-State Share * (Funding Match)	Requested Grant Funding	Other State Funds Being Used	Total	% Funding Match
(a)	Direct Project Administration Costs	\$15,000	\$15,000	\$0	\$30,000	50%
(b)	Land Purchase/Easement	\$0	\$0	\$0	\$0	
(c)	Planning/Design/Engineering/Environmental Documentation	\$71,000	\$70,000	\$0	\$141,000	50%
(d)	Construction/Implementation	\$138,000	\$137,000	\$0	\$275,000	50%
(e)	Environmental Compliance/Mitigation/Enhancement	\$75,000	\$75,000	\$0	\$150,000	50%
(f)	Construction Administration	\$9,000	\$8,000	\$0	\$17,000	50%
(g)	Other Costs	\$0	\$0	\$0	\$0	
(h)	Construction/Implementation Contingency (25%)	\$35,000	\$34,000	\$0	\$69,000	50%
(i)	Grand Total	\$341,000	\$341,000	\$0	\$682,000	50%
* Non-State funding source: FZ9 drainage fee						

Table 1c Project Budget						
Proposal Title: <u>Phoenix Lake IRWM Retrofit</u>						
Project Title: <u>Water Quality Project</u>						
Budgetary Category		(a)	(b)	(c)	(d)	(e)
		Non-State Share * (Funding Match)	Requested Grant Funding	Other State Funds Being Used	Total	% Funding Match
(a)	Direct Project Administration Costs	\$2,500	\$2,500	\$0	\$5,000	50%
(b)	Land Purchase/Easement	\$0	\$0	\$0	\$0	
I	Planning/Design/Engineering/Environmental Documentation	\$12,000	\$12,000	\$0	\$24,000	50%
(d)	Construction/Implementation	\$68,000	\$67,000	\$0	\$135,000	50%
(e)	Environmental Compliance/Mitigation/Enhancement	\$75,000	\$75,000	\$0	\$150,000	50%
(f)	Construction Administration	\$17,000	\$17,000	\$0	\$34,000	50%
(g)	Other Costs	\$0	\$0	\$0	\$0	
(h)	Construction/Implementation Contingency (25%)	\$17,000	\$17,000	\$0	\$34,000	50%
(i)	Grand Total	\$191,000	\$191,000	\$0	\$382,000	50%
* Non-State funding source: FZ9 drainage fee						

Table 1d Project Budget						
Proposal Title: <u>Phoenix Lake IRWM Retrofit</u>						
Project Title: <u>Ecosystem Restoration Project</u>						
Budgetary Category		(a)	(b)	(c)	(d)	(e)
		Non-State Share * (Funding Match)	Requested Grant Funding	Other State Funds Being Used	Total	% Funding Match
(a)	Direct Project Administration Costs	\$2,500	\$2,500	\$0	\$5,000	50%
(b)	Land Purchase/Easement	\$0	\$0	\$0		
I	Planning/Design/Engineering/Environmental Documentation	\$50,000	\$49,000	\$0	\$99,000	50%
(d)	Construction/Implementation	\$65,000	\$65,000	\$0	\$130,000	50%
(e)	Environmental Compliance/Mitigation/Enhancement	\$0	\$0	\$0		50%
(f)	Construction Administration	\$2,000	\$2,000	\$0	\$4,000	50%
(g)	Other Costs	\$0	\$0	\$0		
(h)	Construction/Implementation Contingency (25%)	\$17,000	\$16,000	\$0	\$33,000	50%
(i)	Grand Total	\$136,000	\$135,000	\$0	\$271,000	50%
* Non-State funding source: FZ9 drainage fee						

Table 1e Project Budget						
Proposal Title: <u>Phoenix Lake IRWM Retrofit</u>						
Project Title: <u>Recreation and Public Access Project</u>						
Budgetary Category		(a)	(b)	(c)	(d)	(e)
		Non-State Share * (Funding Match)	Requested Grant Funding	Other State Funds Being Used	Total	% Funding Match
(a)	Direct Project Administration Costs	\$31,000	\$30,000	\$0	\$61,000	50%
(b)	Land Purchase/Easement	\$0	\$0	\$0	\$0	
I	Planning/Design/Engineering/Environmental Documentation	\$110,000	\$109,000	\$0	\$219,000	50%
(d)	Construction/Implementation	\$554,000	\$554,000	\$0	\$1,108,000	50%
(e)	Environmental Compliance/Mitigation/Enhancement	\$6,500	\$6,500	\$0	\$13,000	50%
(f)	Construction Administration	\$66,000	\$66,000	\$0	\$132,000	50%
(g)	Other Costs	\$0	\$0	\$0	\$0	
(h)	Construction/Implementation Contingency (25%)	\$139,000	\$138,000	\$0	\$277,000	50%
(i)	Grand Total	\$905,000	\$905,000	\$0	\$1,810,000	50%
* Non-State funding source: FZ9 drainage fee						

Table 2 Summary Budget

Proposal Title: Phoenix Lake IRWM Retrofit

Individual Project Title		(a)	(b)	(c)	(d)	(e)
		Non-State Share * (Funding Match)	Requested Grant Funding (DWR Grant Amount)	Other State Funds Being Used	Total	% Funding Match
(a)	Flood Damage Reduction Project	\$6,089,000	\$6,088,000	\$0	\$12,177,000	50%
(b)	Water Supply Project	\$341,000	\$341,000	\$0	\$682,000	50%
(c)	Water Quality Project	\$191,000	\$191,000	\$0	\$382,000	50%
(d)	Ecosystem Recreation Project	\$136,000	\$135,000	\$0	\$271,000	50%
(e)	Recreation and Public Access Project	\$905,000	\$905,000	\$0	\$1,810,000	50%
(f)	Grand Total	\$7,661,000	\$7,661,000	\$0	\$15,322,000	50%
* Non-State funding source: FZ9 drainage fee						

Project Budget Details
 Proposal Title: Phoenix Lake TRWM Retrofit
 Project Title: Flood Damage Reduction Project

	Civil Engineering Consultant/Contractor					Geotechnical Engineering Consultant/Contractor				Environmental Consultant/Contractor						Hydrographer Consultant/Contraction		Flood Zone 9	MMWD					Firms Totals				Total Cost								
	Staff and Classifications																								Labor Cost	Expenses				Non-Construction Total Cost	Construction Contractor Total cost					
	Principal/Project Manager	Project Engineer	Hydraulic/Hydrologic Engineer	AutoCAD Design Engineer	Administrative	Principal/Project Manager	Project Geotechnical Engineer	AutoCAD Design Engineer	Administrative	Principal/Project Manager	Biologist (Fisheries Scientist)	Biologist	Environmental Analyst	Technical Writing Editor	Administrative	Hydrographer	Technician	Project Manager/Grant Administrator	Project Coordinator/Inspector	On Labor (3%)	Subcontractors															
																					Drilling	Soils/Materials/ Water Testing Lab														
Billing Rates and Hours																																				
	\$185	\$175	\$155	\$110	\$60	\$195	\$180	\$110	\$60	\$140	\$120	\$100	\$100	\$80	\$60	\$100	\$80	\$80	\$80																	
Budget Category (a): Direct Project Administration Costs																																				
Task 1: Administration																			3860	60	\$ 313,600	\$ 9,408			\$ 323,008	\$ 323,008										
Task 2: Labor Compliance Program																			500		\$ 40,000	\$ 1,200			\$ 41,200	\$ 41,200										
Task 3: Reporting																			500		\$ 40,000	\$ 1,200			\$ 41,200	\$ 41,200										
Subtotal																					\$ 393,600	\$ 11,808			\$ 405,408	\$ 405,408										
Budget Category (b): Land Purchase/Easement																																				
Not needed																																				
Budget Category (c): Planning/Design/Engineering/ Environmental Documentation																																				
Task 4: Assessment and Evaluation	10	75	100		10	30	60		10										60	40	\$ 56,325	\$ 1,690	\$ 65,000	\$ 21,000	\$ 144,015	\$ 144,015										
Task 5: Final Design	50	80	60	180	40	100	200	80	20										60	60	\$ 129,850	\$ 3,896			\$ 133,746	\$ 133,746										
Task 6: Environmental Documentation	40									200	300	400	650	200	150				120	80	\$ 217,400	\$ 6,522			\$ 223,922	\$ 223,922										
Task 7: Permitting		40				60	100			100	100	100	325	100	75				100	40	\$ 128,900	\$ 3,867			\$ 132,767	\$ 132,767										
Sub-Subtotal																					\$ 532,475	\$ 15,974			\$ 634,449	\$ 634,449										
Contingency (25%)										0.25											\$ 133,119	\$ 3,994			\$ 158,612	\$ 158,612										
Subtotal																					\$ 665,594	\$ 19,968			\$ 793,062	\$ 793,062										
Budget Category (d): Construction/Implementation																																				
Task 8: Construction Contracting		60				20	100												40	40	\$ 38,800	\$ 1,164		\$ 30,000		\$ 39,964	\$ 39,964									
Task 9: Construction																					\$ -	\$ -			\$ 8,212,000	\$ 8,212,000										
Subtask 9.1 Mobilization and Site Preparation																					\$ -	\$ -			\$ 430,000	\$ 430,000										
Subtask 9.2 Project Construction																					\$ -	\$ -			\$ 7,632,000	\$ 7,632,000										
Subtask 9.3 Performance Testing and Demobilization																					\$ -	\$ -			\$ 100,000	\$ 100,000										
Subtask 9.4 Monitoring system																					\$ -	\$ -			\$ 50,000	\$ 50,000										
Subtotal																					\$ 38,800	\$ 1,164			\$ 8,251,964	\$ 8,251,964										
Budget Category (e): Environmental compliance/Mitigation/Enhancement																																				
Task 10: Environmental Compliance/Mitigation/Enhancement	40					40						600							60	80	\$ 86,400	\$ 2,592			\$ 89,000	\$ 150,000	\$ 239,000									
Contingency (25%)										0.25											\$ 21,600	\$ 648			\$ 22,250	\$ 22,250										
Subtotal																					\$ 108,000	\$ 3,240			\$ 111,250	\$ 150,000	\$ 261,250									
Budget Category (f): Construction Administration																																				
Task 11: Construction Administration	20	80				240	1200					800							200	200	\$ 392,500	\$ 11,775			\$ 404,300	\$ 404,300										
Total Hours	160	335	160	180	50	490	1660	80	30	300	400	1900	975	300	225	0	0	5500	600		13,345															
Total Costs	\$ 29,600	\$ 58,625	\$ 24,800	\$ 19,800	\$ 3,000	\$ 95,550	\$ 298,800	\$ 8,800	\$ 1,800	\$ 42,000	\$ 48,000	\$ 190,000	\$ 97,500	\$ 24,000	\$ 13,500	\$ -	\$ -	\$ 440,000	\$ 48,000		\$ 1,443,775	\$ 47,955			\$ 1,714,000	\$ 8,402,000	\$ 10,116,000									

Project Budget Details
Proposal Title: Phoenix Lake IRWM Retrofit
Project Title: Water Supply Project

	Civil Engineering Consultant/Contractor					Geotechnical Engineering Consultant/Contractor				Environmental Consultant/Contractor							Hydrographer Consultant/Contraction	Flood Zone 9	MMWD	Firms Totals						Total Cost	
	Staff and Classifications																										
	Principal/Project Manager	Project Engineer	Hydraulic/Hydrologic Engineer	AutoCAD Design Engineer	Administrative	Principal/Project Manager	Project Geotechnical Engineer	AutoCAD Design Engineer	Administrative	Principal/Project Manager	Biologist (Fisheries Scientist)	Biologist	Environmental Analyst	Technical Writing Editor	Administrative	Hydrographer	Technician	Project Manager/Grant Administrator	Project Coordinator/Inspector	Labor Cost	Expenses				Non-Construction Total Cost		Construction Contractor Total cost
																					On Labor (3%)	Subcontractors					
																						Drilling	Soils/Materials/ Water Testing Lab				
Billing Rates and Hours																											
	\$185	\$175	\$155	\$110	\$60	\$195	\$180	\$110	\$60	\$140	\$120	\$100	\$100	\$80	\$60	\$100	\$80	\$80	\$80								
Budget Category (a): Direct Project Administration Costs																											
Task 1: Administration																		240	60	\$ 24,000	\$ 720			\$ 24,720	\$ 24,720		
Task 2: Labor Compliance Program																		30		\$ 2,400	\$ 72			\$ 2,472	\$ 2,472		
Task 3: Reporting																		30		\$ 2,400	\$ 72			\$ 2,472	\$ 2,472		
Subtotal																				\$ 28,800	\$ 864			\$ 29,664	\$ 29,664		
Budget Category (b): Land Purchase/Easement																											
Not needed																											
Budget Category (c): Planning/Design/Engineering/ Environmental Documentation																											
Task 4: Assessment and Evaluation	10	75	100		10													5	5	\$ 31,875	\$ 956			\$ 32,831	\$ 32,831		
Task 5: Final Design	40	100	20	200	20													5	5	\$ 52,000	\$ 1,560			\$ 53,560	\$ 53,560		
Task 6: Environmental Documentation	10									10	20	20	40	10	5			10	5	\$ 13,950	\$ 419			\$ 14,369	\$ 14,369		
Task 7: Permitting	20	40																10	5	\$ 11,900	\$ 357			\$ 12,257	\$ 12,257		
Sub-Subtotal																				\$ 109,725	\$ 3,292			\$ 113,017	\$ 113,017		
Contingency (25%)	0.25																			\$ 27,431	\$ 823			\$ 28,254	\$ 28,254		
Subtotal																				\$ 137,156	\$ 4,115			\$ 141,271	\$ 141,271		
Budget Category (d): Construction/Implementation																											
Task 8: Construction Contracting	20	60																20	20	\$ 17,400	\$ 522			\$ 17,922	\$ 17,922		
Task 9: Construction																				\$ -	\$ -			\$ 257,000	\$ 257,000		
Subtask 9.1 Mobilization and Site Preparation																				\$ -	\$ -			\$ 12,000	\$ 12,000		
Subtask 9.2 Project Construction																				\$ -	\$ -			\$ 237,000	\$ 237,000		
Subtask 9.3 Performance Testing and Demobilization																				\$ -	\$ -			\$ 8,000	\$ 8,000		
Subtask 9.4 Monitoring system																				\$ -	\$ -				\$ -		
Subtotal																				\$ 17,400	\$ 522			\$ 274,922	\$ 274,922		
Budget Category (e): Environmental compliance/Mitigation/Enhancement																											
Task 10: Environmental Compliance/Mitigation/Enhancement																				\$ -	\$ -			\$ -	\$ 150,000		
Contingency (25%)	0.25																			\$ -	\$ -			\$ -	\$ -		
Subtotal																				\$ -	\$ -			\$ -	\$ 150,000		
Budget Category (f): Construction Administration																											
Task 11: Construction Administration	10	60																20	30	\$ 16,350	\$ 491			\$ 16,800	\$ 16,800		
Total Hours	110	335	120	200	30	0	0	0	0	10	20	20	40	10	5	0	0	370	130	1,400							
Total Costs	\$ 20,350	\$ 58,625	\$ 18,600	\$ 22,000	\$ 1,800	\$ -	\$ -	\$ -	\$ -	\$ 1,400	\$ 2,400	\$ 2,000	\$ 4,000	\$ 800	\$ 300	\$ -	\$ -	\$ 29,600	\$ 10,400	\$ 172,275	\$ 5,991			\$ 188,000	\$ 425,000	\$ 613,000	

Project Budget Details
Proposal Title: Phoenix Lake IRWM Retrofit
Project Title: Water Quality Project

	Civil Engineering Consultant/Contractor					Geotechnical Engineering Consultant/Contractor				Environmental Consultant/Contractor						Hydrographer Consultant/Contraction		Flood Zone 9	MMWD					Firms Totals				Total Cost			
	Staff and Classifications																														
	Principal/Project Manager	Project Engineer	Hydraulic/Hydrologic Engineer	AutoCAD Design Engineer	Administrative	Principal/Project Manager	Project Geotechnical Engineer	AutoCAD Design Engineer	Administrative	Principal/Project Manager	Biologist (Fisheries Scientist)	Biologist	Environmental Analyst	Technical Writing Editor	Administrative	Hydrographer	Technician	Project Manager/Grant Administrator	Project Coordinator/Inspector	Labor Cost	On Labor (3%)	Expenses		Non-Construction Total Cost	Construction Contractor Total cost						
																						Subcontractors									
																						Drilling	Soils/Materials/ Water Testing Lab								
Billing Rates and Hours																															
	\$185	\$175	\$155	\$110	\$60	\$195	\$180	\$110	\$60	\$140	\$120	\$100	\$100	\$80	\$60	\$100	\$80	\$80	\$80												
Budget Category (a): Direct Project Administration Costs																															
Task 1: Administration																		45		\$ 3,600	\$ 108			\$ 3,708	\$ 3,708						
Task 2: Labor Compliance Program																		10		\$ 800	\$ 24			\$ 824	\$ 824						
Task 3: Reporting																		10		\$ 800	\$ 24			\$ 824	\$ 824						
Subtotal																				\$ 5,200	\$ 156			\$ 5,356		\$ 5,356					
Budget Category (b): Land Purchase/Easement																															
Not needed																															
Budget Category (c): Planning/Design/Engineering/ Environmental Documentation																															
Task 4: Assessment and Evaluation																60	60	10	10	\$ 12,400	\$ 372			\$ 12,772	\$ 12,772						
Task 5: Final Design																		5	5	\$ 800	\$ 24			\$ 824	\$ 824						
Task 6: Environmental Documentation	5									5	5	5	10	5	5			5	5	\$ 5,225	\$ 157			\$ 5,382	\$ 5,382						
Task 7: Permitting																			5	\$ 400	\$ 12			\$ 412	\$ 412						
Sub-Subtotal																				\$ 18,825	\$ 565			\$ 19,390		\$ 19,390					
Contingency (25%)	0.25																			\$ 4,706	\$ 141			\$ 4,847		\$ 4,847					
Subtotal																				\$ 23,531	\$ 706			\$ 24,237		\$ 24,237					
Budget Category (d): Construction/Implementation																															
Task 8: Construction Contracting	10	40																20	10	\$ 11,250	\$ 338			\$ 11,588	\$ 11,588						
Task 9: Construction																				\$ -	\$ -			\$ 123,000	\$ 123,000						
Subtask 9.1 Mobilization and Site Preparation																				\$ -	\$ -			\$ 3,000	\$ 3,000						
Subtask 9.2 Project Construction																				\$ -	\$ -			\$ 108,000	\$ 108,000						
Subtask 9.3 Performance Testing and Demobilization																				\$ -	\$ -			\$ 2,000	\$ 2,000						
Subtask 9.4 Monitoring system																				\$ -	\$ -			\$ 10,000	\$ 10,000						
Subtotal																				\$ 11,250	\$ 338			\$ 134,588		\$ 134,588					
Budget Category (e): Environmental compliance/Mitigation/Enhancement																															
Task 10: Environmental Compliance/Mitigation/Enhancement																				\$ -	\$ -			\$ -	\$ 150,000						
Contingency (25%)	0.25																			\$ -	\$ -			\$ -		\$ -					
Subtotal																				\$ -	\$ -			\$ -	\$ 150,000	\$ 150,000					
Budget Category (f): Construction Administration																															
Task 11: Construction Administration	10	60																20	30	\$ 16,350	\$ 491			\$ 16,800	\$ 17,300						
Total Hours	25	100	0	0	0	0	0	0	0	5	5	5	10	5	5	60	60	125	65	470											
Total Costs	\$ 4,625	\$ 17,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 700	\$ 600	\$ 500	\$ 1,000	\$ 400	\$ 300	\$ 6,000	\$ 4,800	\$ 10,000	\$ 5,200	\$ 51,625	\$ 1,690			\$ 46,000	\$ 285,000						

\$ 331,000

Project Budget Details
Proposal Title: Phoenix Lake IRWM Retrofit
Project Title: Ecosystem Restoration Project

	Civil Engineering Consultant/Contractor					Geotechnical Engineering Consultant/Contractor				Environmental Consultant/Contractor							Hydrographer Consultant/Contraction	Flood Zone 9	MMWD	Firms Totals							Total Cost				
	Staff and Classifications																														
	Principal/Project Manager	Project Engineer	Hydraulic/Hydrologic Engineer	AutoCAD Design Engineer	Administrative	Principal/Project Manager	Project Geotechnical Engineer	AutoCAD Design Engineer	Administrative	Principal/Project Manager	Biologist (Fisheries Scientist)	Biologist	Environmental Analyst	Technical Writing Editor	Administrative	Hydrographer	Technician	Project Manager/Grant Administrator	Project Coordinator/Inspector	Labor Cost	Expenses			Non-Construction Total Cost	Construction Contractor Total cost						
																					On Labor (3%)	Subcontractors									
																						Drilling	Soils/Materials/ Water Testing Lab								
Billing Rates and Hours																															
Budget Category (a): Direct Project Administration Costs																															
Task 1: Administration																			45		\$ 3,600	\$ 108			\$ 3,708		\$ 3,708				
Task 2: Labor Compliance Program																			10		\$ 800	\$ 24			\$ 824		\$ 824				
Task 3: Reporting																			10		\$ 800	\$ 24			\$ 824		\$ 824				
Subtotal																					\$ 5,200	\$ 156			\$ 5,356		\$ 5,356				
Budget Category (b): Land Purchase/Easement																															
Not needed																															
Budget Category (c): Planning/Design/Engineering/ Environmental Documentation																															
Task 4: Assessment and Evaluation																75	75		5	5	\$ 14,300	\$ 429			\$ 14,729		\$ 14,729				
Task 5: Final Design			5	5	20														5	5	\$ 4,650	\$ 140			\$ 4,790		\$ 4,790				
Task 6: Environmental Documentation		5									5	5	5	10	5	5			5	5	\$ 5,225	\$ 157			\$ 5,382		\$ 5,382				
Task 7: Permitting		40	20								20	100	100		10	10			100	100	\$ 53,100	\$ 1,593			\$ 54,693		\$ 54,693				
Sub-Subtotal																					\$ 77,275	\$ 2,318			\$ 79,593		\$ 79,593				
Contingency (25%)											0.25										\$ 19,319	\$ 580			\$ 19,898		\$ 19,898				
Subtotal																					\$ 96,594	\$ 2,898			\$ 99,492		\$ 99,492				
Budget Category (d): Construction/Implementation																															
Task 8: Construction Contracting			5																5	5	\$ 1,675	\$ 50			\$ 1,725		\$ 1,725				
Task 9: Construction																					\$ -	\$ -			\$ 128,000		\$ 128,000				
Subtask 9.1 Mobilization and Site Preparation																					\$ -	\$ -			\$ 6,000		\$ 6,000				
Subtask 9.2 Project Construction																					\$ -	\$ -			\$ 12,000		\$ 12,000				
Subtask 9.3 Performance Testing and Demobilization																					\$ -	\$ -			\$ 5,000		\$ 5,000				
Subtask 9.4 Monitoring system																					\$ -	\$ -			\$ 105,000		\$ 105,000				
Subtotal																					\$ 1,675	\$ 50			\$ 129,725		\$ 129,725				
Budget Category (e): Environmental compliance/Mitigation/Enhancement																					\$ -	\$ -			\$ -		\$ -				
Task 10: Environmental Compliance/Mitigation/Enhancement																					\$ -	\$ -			\$ -		\$ -				
Contingency (25%)											0.25										\$ -	\$ -			\$ -		\$ -				
Subtotal																					\$ -	\$ -			\$ -		\$ -				
Budget Category (f): Construction Administration																															
Task 11: Construction Administration		5	10																5	5	\$ 3,475	\$ 104			\$ 3,600		\$ 3,600				
Total Hours		50	40	5	20	0	0	0	0	0	25	105	105	10	15	15	75	75	190	125	855										
Total Costs		\$ 9,250	\$ 7,000	\$ 775	\$ 2,200	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,500	\$ 12,600	\$ 10,500	\$ 1,000	\$ 1,200	\$ 900	\$ 7,500	\$ 6,000	\$ 15,200	\$ 10,000	\$ 87,625	\$ 3,208			\$ 108,000	\$ 130,000	\$ 238,000				

Project Budget Details
Proposal Title: Phoenix Lake IRWM Retrofi
Project Title: Recreation and Public Access Project

	Civil Engineering Consultant/Contractor					Geotechnical Engineering Consultant/Contractor				Environmental Consultant/Contractor							Hydrographer Consultant/Contraction		Flood Zone 9	MMWD						Firms Totals			Total Cost
	Staff and Classifications																												
	Principal/Project Manager	Project Engineer	Hydraulic/Hydrologic Engineer	AutoCAD Design Engineer	Administrative	Principal/Project Manager	Project Geotechnical Engineer	AutoCAD Design Engineer	Administrative	Principal/Project Manager	Biologist (Fisheries Scientist)	Biologist	Environmental Analyst	Technical Writing Editor	Administrative	Hydrographer	Technician	Project Manager/Grant Administrator	Project Coordinator/Inspector	Labor Cost	Expenses			Non-Construction Total Cost	Construction Contractor Total cost				
																					On Labor (3%)	Subcontractors							
																						Drilling	Soils/Materials/ Water Testing Lab						
Billing Rates and Hours																													
Budget Category (a): Direct Project Administration Costs																													
Task 1: Administration																		600		\$ 48,000	\$ 1,440			\$ 49,440	\$ 49,440				
Task 2: Labor Compliance Program																		70		\$ 5,600	\$ 168			\$ 5,768	\$ 5,768				
Task 3: Reporting																		70		\$ 5,600	\$ 168			\$ 5,768	\$ 5,768				
Subtotal																				\$ 59,200	\$ 1,776			\$ 60,976	\$ 60,976				
Budget Category (b): Land Purchase/Easement																													
Not needed																													
Budget Category (c): Planning/Design/Engineering/ Environmental Documentation																													
Task 4: Assessment and Evaluation																				\$ -	\$ -			\$ -	\$ -				
Task 5: Final Design	40	200	80	400	20													20	60	\$ 106,400	\$ 3,192			\$ 109,592	\$ 109,592				
Task 6: Environmental Documentation										20	60	60	80	20	20			20	40	\$ 31,600	\$ 948			\$ 32,548	\$ 32,548				
Task 7: Permitting		20								20	100	100	20	10	10				5	\$ 32,100	\$ 963			\$ 33,063	\$ 33,063				
Sub-Subtotal																				\$ 170,100	\$ 5,103			\$ 175,203	\$ 175,203				
Contingency (25%)										0.25										\$ 42,525	\$ 1,276			\$ 43,801	\$ 43,801				
Subtotal																				\$ 212,625	\$ 6,379			\$ 219,004	\$ 219,004				
Budget Category (d): Construction/Implementation																													
Task 8: Construction Contracting	10	80																20	60	\$ 22,250	\$ 668			\$ 22,918	\$ 22,918				
Task 9: Construction																				\$ -	\$ -			\$ 1,085,000	\$ 1,085,000				
Subtask 9.1 Mobilization and Site Preparation																				\$ -	\$ -			\$ 24,000	\$ 24,000				
Subtask 9.2 Project Construction																				\$ -	\$ -			\$ 1,034,000	\$ 1,034,000				
Subtask 9.3 Performance Testing and Demobilization																				\$ -	\$ -			\$ 27,000	\$ 27,000				
Subtask 9.4 Monitoring system																				\$ -	\$ -								
Subtotal																				\$ 22,250	\$ 668			\$ 1,107,918	\$ 1,107,918				
Budget Category (e): Environmental compliance/Mitigation/Enhancement																													
Task 10: Environmental Compliance/Mitigation/Enhancement												100								\$ 10,000	\$ 300			\$ 10,300	\$ 10,300				
Contingency (25%)										0.25										\$ 2,500	\$ 75			\$ 2,575	\$ 2,575				
Subtotal																				\$ 12,500	\$ 375			\$ 12,875	\$ -				
Budget Category (f): Construction Administration																													
Task 11: Construction Administration	20	100										880						40	200	\$ 128,400	\$ 3,852			\$ 132,300	\$ 132,300				
Total Hours	70	400	80	400	20	0	0	0	0	40	160	1140	100	30	30	0	0	840	365	3,675									
Total Costs	\$ 12,950	\$ 70,000	\$ 12,400	\$ 44,000	\$ 1,200	\$ -	\$ -	\$ -	\$ -	\$ 5,600	\$ 19,200	\$ 114,000	\$ 10,000	\$ 2,400	\$ 1,800	\$ -	\$ -	\$ 67,200	\$ 29,200	\$ 389,950	\$ 13,049			\$ 425,000	\$ 1,108,000				
																								\$ 1,533,000					