7 ATTACHMENT 4 - BUDGETS

For the "AttachmentName" in the naming convention of BMS, use "Budget" for this attachment. See Exhibit B for detailed guidance on preparation of this attachment.

Attachment 4 is mandatory. Table 5 (Exhibit B) must be completed for each project in the Proposal and Table 6 must be completed as a summary or roll-up budget for the entire Proposal. For each project contained in the Proposal, provide detailed budget documentation supporting the costs shown in Table 6, Budget. For each budget category shown in Table 6, there may be several tasks and sub-tasks.

Table 5 (Exhibit B) will also be used to present the funding match for the Proposal. For SWFM funding, applicants must identify a minimum funding match of at least 50% for the total project costs on a per project basis.

Applicants must consider the relevant labor code compliance requirements and the applicability of prevailing wage laws in developing the Budget (Section IV of the 2012 Guidelines). Applicants should also identify funding for the Data Management and Monitoring Deliverables identified in the Work Plan, including any data sharing efforts with the applicable State databases.

7.1 Hannah Ranch Flood Control & Habitat Conservation Project

Supporting documentation, including the Budget for the Hannah Ranch Flood Control & Habitat Conservation Project (Project) budget can be found in **Appendices A and B of Attachment 4** of the application.

Table 4-1: Project Summary Budget Table

Table 5 – Project Budget Proposal Title: 2013 Hannah Ranch Flood Control & Habitat Conservation Project Project Title: Hannah Ranch Flood Control & Habitat Conservation Project					
		(a)	(b)	(c)	(d)
Category		Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Source*	Total Cost
(a)	Direct Project Administration	$ -	$ 210,000	$ -	$ 210,000
(b)	Land Purchase/Easement	$ -	$ -	$ -	$ -
(c)	Planning/Design/Engineering/ Environmental Documentation	$ -	$ 933,426	$ -	$ 933,426
(d)	Construction/Implementation	$ 2,591,547	$ 1,515,463	$ -	$ 4,107,010
(e)	Environmental Compliance/ Mitigation/Enhancement	$ -	$ 40,000	$ -	$ 40,000
(f)	Construction Administration	$ -	$ 35,000	$ -	$ 35,000
(g)	Other Costs	$ -	$ 74,874	$ -	$ 74,874
(h)	Construction/Implementation Contingency	$ 518,309	$ 301,093	$ -	$ 819,402
(i)	**Grand Total (Sum rows (a) through (h) for each column)**	**$ 3,109,856**	**$ 3,109,856**	**$ -**	**$ 6,219,712**
***List sources of funding:** *All cost share funding will be sourced from Kaweah Delta Water Conservation District's Major Structures portion of their Reserve Fund.*					

7.1.1 Row (a) Direct Project Administration

Project and Grant administration costs, along with Grant reporting costs, will be accomplished by the Kaweah Delta Water Conservation District's (KDWCD) Senior Engineer, in conjunction with the KDWCD's Consultant Engineer. KDWCD's Senior Engineer and Consultant Engineer have hourly rates of $61.25 and $140.00, respectively. Costs for the Project Administration are budgeted at approximately one percent (1%) of the total Project cost. Costs for Grant Reporting are budgeted at approximately one-half of a percent (0.5%) of the total Project cost. These costs were developed based on similar costs that are currently being spent as part of the Kaweah River Basin IRWM Round 1 Implementation Grant.

A Department of Industrial Relations approved labor compliance manual will be developed and used to implement labor compliance in accordance with the requirements of California Labor Code §1771.5(b). KDWCD will administer and implement the labor compliance plan through their labor compliance consultant. KDWCD's Labor Compliance Manager has an hourly rate of $75.00. Costs associated

with the Labor Compliance Program are budgeted at approximately two percent (2%) of the total Project cost and were developed based on similar costs currently being spent as part of the Kaweah River Basin IRWM Round 1 Implementation Grant.

7.1.2 Row (b) Land Purchase/Easement

The District purchased the Hannah Ranch property in November, 2000. No Project costs were included in this cost category.

7.1.3 Row (c) Planning/Design/Engineering/Environmental Documentation

The design of the Project is currently at the 10% conceptual design stage, with the completion of the Project's feasibility study in 2004. Final Design efforts are described in the Project work plan and associated costs per hour, per discipline are listed below for all design efforts (30% concept, 60% design, 90% pre-final, and 100% design) of the $348,279 as listed in **Appendix A of Attachment 4**, Project Budget. The total number of hours for the design effort was obtained by dividing the total design budget by the average cost per hour.

Design Discipline	Hourly Rate
Principal Engineer	$140.00
Structural Design Engineer	$96.00
Staff Engineer	$75.00
Senior Drafting Technician	$82.00
Average Hourly Cost	**$98.25**
Total Hours	**3,545**

Budgeted environmental documentation costs, which include the development of all required CEQA and NEPA documents as described in the Project work plan total $47,974 as listed in **Appendix A of Attachment 4**, Project Budget. Associated costs per hour, per discipline are listed below along with the total number of hours for the environmental documentation effort, which was obtained by dividing the total listed budget by the average cost per hour.

Environmental Documentation Development Discipline	Hourly Rate
Principal Engineer	$140.00
Staff Engineer	$75.00
Senior Biologist	$100.00
Average Hourly Cost	**$105.00**
Total Hours	**457**

Budgeted Construction Inspection/Testing costs, which total $537,173, as listed in **Appendix A of Attachment 4**, include the Project Resident Inspector, construction surveying services and all materials testing are as listed below. Associated costs per hour, per discipline, are listed below along with the total number of hours for the inspection/testing effort, which was obtained by dividing the total listed budget by the average hourly cost per hour.

Construction Inspection/Testing Discipline	Hourly Rate	Total Hours
Resident Inspector	$100.00	4,507
Two-Man Crew Survey Team	$200.00	125
Senior Biologist	$105.06	585

7.1.4 Row (d) Construction/Implementation

7.1.4.1 Construction Contracting

The Construction Contracting costs, which total $10,000, as listed in **Appendix A of Attachment 4**, were developed from similar efforts recently accomplished by KDWCD's Consultant Engineer for public bidding processes for construction related activities within the local area. Associated costs per hour, per discipline are listed below along with the total number of hours for the inspection/testing effort. The remaining costs are associated with printing and office supplies.

Construction Contracting Discipline	Hourly Rate
Principal Engineer	$140.00
Staff Engineer	$75.00
Secretarial	$50.00
Average Hourly Cost	**$88.33**
Total Hours	**110**

7.1.4.2 Construction

The estimated Project construction costs were developed by KDWCD's consultant engineer from conceptual plans prepared during the Project's Feasibility Study and similar jobs within the local area, which were constructed within the last five (5) years. A copy of the engineer's estimates for the constructible components of the Project can be found in **Appendix B of Attachment 4**. The Budgeted Construction costs, which total $4,097,010, as listed in **Appendix A of Attachment** 4, Project Budget, are for the following construction efforts:

- General
  - Mobilization and Demobilization
  - Sheeting and Shoring
  - Clearing and Grubbing
  - Trench Safety Plan
  - Site Work
- Friant-Kern Canal Turnout Structure
  - Excavation/Earthwork – Canal Bank
  - Demolition – Canal Lining Modifications
  - Structure – Concrete
  - Furnish & Install (F&I) Stainless Steel Traveling Water Screen
  - F&I Structure Misc. Metals, Grating, etc.
  - F&I 72-inch Diameter RCP pipe
  - F&I 72-inch Diameter RCP pipe - Road Crossing
  - F&I 72-inch Diameter Control Gates
  - F&I Turnout Misc. Items and Appurtances, etc.
  - F&I Electrical and Controls

  - F&I Perimeter Fencing
- Hannah Basin Discharge Structure
  - Excavation/Earthwork
  - Energy Dissipating Structure – Concrete
  - F&I Rip-Rap
  - F&I Misc. Items and Appurtances, etc.
- Hannah Dam Structure
  - Overexcavation
  - F&I Compacted Embankment at Structure
  - F&I Compacted Embankment at Roadways
  - F&I Reinforced Concrete Structures
  - F&I Reinforced Concrete 6-inch Lining
  - F&I Reinforced Concrete 10-inch Lining
  - F&I Miscellaneous Metal
  - F&I Rip-Rap
  - F&I Overshot Gates
  - F&I Debris Barrier
  - F&I Anchors
  - F&I Dewatering
  - F&I Electrical Work
- Hannah Ranch Basin Improvements
  - Basin Improvements
    - Excavation/Earthwork
    - Compacted Embankment
    - Misc. Earthwork
    - Modifications to Existing Structures/Connections
    - Sanding of Reservoir Levee Top
    - Finish Grading
  - Basin/Cell Intertie Structures
    - Structure – Concrete
    - F&I 72-inch Diameter RCP Pipe
    - F&I 72-inch Diameter Control Gates
    - F&I Misc. Items and Appurtances, etc.
    - F&I Rip-Rap
- Hannah Ranch Turnout Structure
  - Excavation/Earthwork
  - Structure – Concrete
  - F&I Stainless Steel Traveling Water Screen

  - F&I Structure Misc. Metals, Grating, etc.
  - F&I 72-inch Control Gates
  - F&I Turnout Misc. Items and Appurtances, etc.
  - F&I Electrical and Controls
  - F&I Perimeter Fencing
- Water Return Structure to Kaweah River
  - Excavation/Earthwork
  - Structure – Concrete
  - F&I Control Gates
  - F&I Misc. Items and Appurtances, etc.
  - F&I Electrical and Controls
  - F&I Perimeter Fencing
- Curtain Wall and Drain System
  - Curtain Wall
    - Excavation/Earthwork
    - Curtain Wall Material (Clay)
    - Earthwork - Hauling/Transportation
    - Misc. Earthwork
    - Finish Grading
  - Drain System
    - Excavation/Earthwork
    - F&I Gravel
    - F&I Earthen Material Fill
    - F&I 4-inch Diameter Perforated Pipe
    - F&I Geotextile Material
    - F&I Misc. Items and Appurtances, etc.
- Kaweah River Pipeline Crossing and Connections
  - Excavation/Earthwork
  - F&I Tie-ins/Connections to Existing Pipes and Discharge
  - F&I Concrete - Thrust Blocks and Anchors
  - F&I 24-inch Diameter RCP Pipe
  - Compacted Embankment (Pipeline Crossing)
  - F&I Air Release Valves
  - F&I Pipeline - Misc. Items and Appurtances, etc.

7.1.5 Row (e) Environmental Compliance/Mitigation/ Enhancement

Budgeted Environmental Compliance costs, which total $40,000 as listed in **Appendix A of Attachment 4**, Project Budget, involve a Biological site survey to be conducted

prior to the construction of all Project components and several site surveys to be performed during facilities construction and during the excavation of the basin cells. Results from the site surveys will be documented and recorded and any potential issues will be brought to the attention of KDWCD and will be added to the identified mitigation measures list. In addition, implementation of identified mitigation measures will be accomplished throughout the constructible time period.

7.1.6 Row (f) Construction Administration

Budgeted Construction Administration costs, which total $35,000 as listed in **Appendix A of Attachment 4**, Project Budget, involve the administration of all contracted construction activities and the excavation of the Project site by local rock and sand suppliers. Construction Administration will be provided by KDWCD's consultant engineer in conjunction with KDWCD's Senior Engineer.

Construction Administration Discipline	Hourly Rate
KDWCD Senior Engineer	$61.25
Principal Engineer	$140.00
Staff Engineer	$75.00
Average Hourly Cost	**$92.08**
Total Hours	**380**

7.1.7 Row (g) Other Costs

Other Costs which have been budgeted are for Project permitting and KDWCD's legal services. The following is a list of the anticipated Project permitting, which totals $33,974 as listed in **Appendix A of Attachment 4**, Project Budget.

- Project Permitting
  - California Department of Fish and Game Streambed Alteration Permit (1602 Permit); and
  - Army Corps of Engineers Clean Water Act Permit (404 Permit).
  - Caltrans Encroachment Permit for HWY 245 crossing.

Legal services are anticipated to be spent during the contractual periods with the Department of Water Resources and awarded contractors and Project permitting. Budgeted legal services total $40,900 as listed in **Appendix A of Attachment 4**, Project Budget.

7.1.8 Row (h) Construction/Implementation Contingency

A twenty percent (20%) contingency was used because the Project is at a ten percent (10%) conceptual design stage. A more accurate estimate of construction quantities will need to be completed upon completion of the Final Design and prior to the public bidding process.

ATTACHMENT 4 – BUDGET

APPENDIX A

Hannah Ranch Flood Control & Habitat Conservation Project Budget

Table 5 – Project Budget

Proposal Title: 2013 Hannah Ranch Flood Control & Habitat Conservation Project

Project Title: Hannah Ranch Flood Control & Habitat Conservation Project

	(a)	(b)	(c)	(d)
Budget Category	**Requested Grant Amount**	**Cost Share: Non-State Fund Source* (Funding Match)**	**Cost Share: Other State Fund Source***	**Total Cost**
Budget Category (a): Direct Project Administration				
Task 1: Administration	$ -	$ 60,000	$ -	$ 60,000
Task 2: Labor Compliance Program	$ -	$ 120,000	$ -	$ 120,000
Task 3: Grant Reporting	$ -	$ 30,000	$ -	$ 30,000
Budget Category (b): Land Purchase/Easement	$ -	$ -	$ -	$ -
Budget Category (c): Planning/Design/Engineering/Environmental Documentation				
Task 4: Assessment and Evaluation				
Task 4.1 Hannah Ranch Site Groundwater Recharge Facilities Feasibility Study	$ -	$ -	$ -	$ -
Task 4.2 Groundwater Flow and Elevation Monitoring	$ -	$ -	$ -	$ -
Task 5: Design				
Task 5.1 Friant-Kern Canal Turnout Structure				
Task 5.1.1 30% Concept Design	$ -	$ 17,043	$ -	$ 17,043
Task 5.1.2 60% Design	$ -	$ 18,260	$ -	$ 18,260
Task 5.1.3 90% Pre-Final Design	$ -	$ 18,260	$ -	$ 18,260
Task 5.1.4 100% Design	$ -	$ 7,304	$ -	$ 7,304
Task 5.2 Hannah Dam Structure				
Task 5.2.1 30% Concept Design	$ -	$ 48,210	$ -	$ 48,210
Task 5.2.2 60% Design	$ -	$ 51,654	$ -	$ 51,654
Task 5.2.3 90% Pre-Final Design	$ -	$ 51,654	$ -	$ 51,654
Task 5.2.4 100% Design	$ -	$ 20,662	$ -	$ 20,662
Task 5.3 Hannah Ranch Basin Improvements				
Task 5.3.1 30% Concept Design	$ -	$ 6,778	$ -	$ 6,778
Task 5.3.2 60% Design	$ -	$ 7,262	$ -	$ 7,262
Task 5.3.3 90% Pre-Final Design	$ -	$ 7,262	$ -	$ 7,262
Task 5.3.4 100% Design	$ -	$ 2,904	$ -	$ 2,904
Task 5.4 Hannah Ranch Turnout Structure				
Task 5.4.1 30% Concept Design	$ -	$ 14,082	$ -	$ 14,082
Task 5.4.2 60% Design	$ -	$ 15,089	$ -	$ 15,089
Task 5.4.3 90% Pre-Final Design	$ -	$ 15,089	$ -	$ 15,089
Task 5.4.4 100% Design	$ -	$ 6,035	$ -	$ 6,035
Task 5.5 Water Return Structure to Kaweah River				
Task 5.5.1 30% Concept Design	$ -	$ 1,957	$ -	$ 1,957
Task 5.5.2 60% Design	$ -	$ 2,097	$ -	$ 2,097
Task 5.5.3 90% Pre-Final Design	$ -	$ 2,097	$ -	$ 2,097
Task 5.5.4 100% Design	$ -	$ 838	$ -	$ 838
Task 5.6 Curtain Wall and Drain System				
Task 5.6.1 30% Concept Design	$ -	$ 6,498	$ -	$ 6,498
Task 5.6.2 60% Design	$ -	$ 6,963	$ -	$ 6,963
Task 5.6.3 90% Pre-Final Design	$ -	$ 6,963	$ -	$ 6,963
Task 5.6.4 100% Design	$ -	$ 2,785	$ -	$ 2,785
Task 5.7 Kaweah River Pipeline Crossing and Connections				
Task 5.1.1 30% Concept Design	$ -	$ 2,949	$ -	$ 2,949
Task 5.1.2 60% Design	$ -	$ 3,160	$ -	$ 3,160
Task 5.1.3 90% Pre-Final Design	$ -	$ 3,160	$ -	$ 3,160
Task 5.1.4 100% Design	$ -	$ 1,264	$ -	$ 1,264
Task 6: Environmental Documentation				
Task 6.1 CEQA Documentation	$ -	$ 40,974	$ -	$ 40,974
Task 6.2 NEPA Documentation - (FKC Turnout Only)	$ -	$ 7,000	$ -	$ 7,000
Task 7: Construction Inspection/Testing				
Task 7.1: Construction Inspection	$ -	$ 450,712	$ -	$ 450,712
Task 7.2: Construction Surveying	$ -	$ 25,000	$ -	$ 25,000
Task 7.3: Materials Testing	$ -	$ 61,461	$ -	$ 61,461

Table 5 – Project Budget

Proposal Title: 2013 Hannah Ranch Flood Control & Habitat Conservation Project

Project Title: Hannah Ranch Flood Control & Habitat Conservation Project

	(a)	(b)	(c)	(d)
Budget Category	**Requested Grant Amount**	**Cost Share: Non-State Fund Source* (Funding Match)**	**Cost Share: Other State Fund Source***	**Total Cost**
Budget Category (d): Construction/Implementation				
Task 8: Construction Contracting				
Task 8.1 Public Bidding Process	$ -	$ 6,000	$ -	$ 6,000
Task 8.2 Public Bid Award and Execution of Contract	$ -	$ 4,000	$ -	$ 4,000
Task 9: Construction				
Task 9.1 General				
Task 9.1.1 Mobilization and Demobilization	$ -	$ 93,300	$ -	$ 93,300
Task 9.1.2 Sheeting and Shoring	$ -	$ 32,500	$ -	$ 32,500
Task 9.1.3 Clearing and Grubbing	$ -	$ 34,500	$ -	$ 34,500
Task 9.1.4 Trench Safety Plan	$ -	$ 25,000	$ -	$ 25,000
Task 9.1.5 Site Work	$ -	$ 39,000	$ -	$ 39,000
Task 9.2 Friant-Kern Canal Turnout Structure				
Task 9.2.1 Turnout Structure and Water Screen				
Excavation/Earthwork - Canal Bank	$ 27,000	$ -	$ -	$ 27,000
Demolition - Canal Lining Modifications	$ 1,877	$ 6,123	$ -	$ 8,000
Structure - Concrete	$ 44,000	$ -	$ -	$ 44,000
Furnish & Install (F&I) Stainless Steel Traveling Water Screen	$ 200,000	$ -	$ -	$ 200,000
F&I Structure Misc. Metals, Grating, etc.	$ 10,000	$ -	$ -	$ 10,000
F&I 72-inch Diameter RCP pipe	$ 123,200	$ -	$ -	$ 123,200
F&I 72-inch Diameter RCP pipe - Road Crossing	$ 160,000	$ -	$ -	$ 160,000
F&I 72-inch Diameter Control Gates	$ -	$ 50,000	$ -	$ 50,000
F&I Turnout Misc. Items and Appurtances, etc.	$ -	$ 5,000	$ -	$ 5,000
F&I Electrical and Controls	$ -	$ 10,000	$ -	$ 10,000
F&I Perimeter Fencing	$ -	$ 1,500	$ -	$ 1,500
Task 9.2.2 Hannah Basin Discharge Structure				
Excavation/Earthwork	$ -	$ 2,000	$ -	$ 2,000
Energy Dissipating Structure - Concrete	$ -	$ 13,200	$ -	$ 13,200
F&I Rip-Rap	$ -	$ 1,500	$ -	$ 1,500
F&I Misc. Items and Appurtances, etc.	$ -	$ 5,000	$ -	$ 5,000
Task 9.3 Hannah Dam Structure				
Overexcavation	$ 70,500	$ -	$ -	$ 70,500
F&I Compacted Embankment at Structure	$ 104,400	$ -	$ -	$ 104,400
F&I Compacted Embankment at Roadways	$ 23,320	$ -	$ -	$ 23,320
F&I Reinforced Concrete Structures	$ 607,200	$ -	$ -	$ 607,200
F&I Reinforced Concrete 6-inch Lining	$ 93,600	$ -	$ -	$ 93,600
F&I Reinforced Concrete 10-inch Lining	$ 70,400	$ -	$ -	$ 70,400
F&I Miscellaneous Metal	$ 45,000	$ -	$ -	$ 45,000
F&I Rip-Rap	$ 20,100	$ -	$ -	$ 20,100
F&I Overshot Gates	$ 594,000	$ -	$ -	$ 594,000
F&I Debris Barrier	$ 31,350	$ -	$ -	$ 31,350
F&I Anchors	$ 69,600	$ -	$ -	$ 69,600
F&I Dewatering	$ 175,000	$ -	$ -	$ 175,000
F&I Electrical Work	$ 121,000	$ -	$ -	$ 121,000
Task 9.4 Hannah Ranch Basin Improvements				
Task 9.4.1 Basin Improvements				
Excavation/Earthwork	$ -	$ -	$ -	$ -
Compacted Embankment	$ -	$ -	$ -	$ -
Misc. Earthwork	$ -	$ 240	$ -	$ 240
Modifications to Existing Structures/Connections	$ -	$ 10,000	$ -	$ 10,000
Sanding of Reservoir Levee Top	$ -	$ -	$ -	$ -
Finish Grading	$ -	$ -	$ -	$ -

Table 5 – Project Budget

Proposal Title: 2013 Hannah Ranch Flood Control & Habitat Conservation Project

Project Title: Hannah Ranch Flood Control & Habitat Conservation Project

	(a)	(b)	(c)	(d)
Budget Category	**Requested Grant Amount**	**Cost Share: Non-State Fund Source* (Funding Match)**	**Cost Share: Other State Fund Source***	**Total Cost**
Task 9.4.2 Basin/Cell Intertie Structures (6 Total)				
Structure - Concrete	$ -	$ 52,800	$ -	$ 52,800
F&I 72-inch Diameter RCP Pipe	$ -	$ 25,200	$ -	$ 25,200
F&I 72-inch Diameter Control Gates	$ -	$ 150,000	$ -	$ 150,000
F&I Misc. Items and Appurtances, etc.	$ -	$ 15,000	$ -	$ 15,000
F&I Rip-Rap	$ -	$ 5,760	$ -	$ 5,760
Task 9.5 Hannah Ranch Turnout Structure				
Excavation/Earthwork	$ -	$ 45,000	$ -	$ 45,000
Structure - Concrete	$ -	$ 66,000	$ -	$ 66,000
F&I Stainless Steel Traveling Water Screen	$ -	$ 300,000	$ -	$ 300,000
F&I Structure Misc. Metals, Grating, etc.	$ -	$ 15,000	$ -	$ 15,000
F&I 72-inch Control Gates	$ -	$ 75,000	$ -	$ 75,000
F&I Turnout Misc. Items and Appurtances, etc.	$ -	$ 10,000	$ -	$ 10,000
F&I Electrical and Controls	$ -	$ 20,000	$ -	$ 20,000
F&I Perimeter Fencing	$ -	$ 6,000	$ -	$ 6,000
Task 9.6 Water Return Structure to Kaweah River				
Excavation/Earthwork	$ -	$ 15,000	$ -	$ 15,000
Structure - Concrete	$ -	$ 17,600	$ -	$ 17,600
F&I Control Gates	$ -	$ 24,000	$ -	$ 24,000
F&I Misc. Items and Appurtances, etc.	$ -	$ 5,000	$ -	$ 5,000
F&I Electrical and Controls	$ -	$ 10,000	$ -	$ 10,000
F&I Perimeter Fencing	$ -	$ 3,000	$ -	$ 3,000
Task 9.7 Curtain Wall and Drain System				
Task 9.7.1 Curtain Wall				
Excavation/Earthwork	$ -	$ 25,000	$ -	$ 25,000
Curtain Wall Material (Clay)	$ -	$ 2,500	$ -	$ 2,500
Earthwork - Hauling/Transportation	$ -	$ 15,000	$ -	$ 15,000
Misc. Earthwork	$ -	$ 4,000	$ -	$ 4,000
Finish Grading	$ -	$ 22,000	$ -	$ 22,000
Task 9.7.2 Drain System				
Excavation/Earthwork	$ -	$ 10,250	$ -	$ 10,250
F&I Gravel	$ -	$ 800	$ -	$ 800
F&I Earthen Material Fill	$ -	$ 1,650	$ -	$ 1,650
F&I 4-inch Diameter Perforated Pipe	$ -	$ 110,000	$ -	$ 110,000
F&I Geotextile Material	$ -	$ 33,000	$ -	$ 33,000
F&I Misc. Items and Appurtances, etc.	$ -	$ 1,000	$ -	$ 1,000
Task 9.8 Kaweah River Pipeline Crossing and Connections				
Excavation/Earthwork	$ -	$ 40,000	$ -	$ 40,000
F&I Tie-ins/Connections to Existing Pipes and Discharge	$ -	$ 10,000	$ -	$ 10,000
F&I Concrete - Thrust Blocks and Anchors	$ -	$ 7,040	$ -	$ 7,040
F&I 24-inch Diameter RCP Pipe	$ -	$ 30,000	$ -	$ 30,000
Compacted Embankment (Pipeline Crossing)	$ -	$ 500	$ -	$ 500
F&I Air Release Valves	$ -	$ 1,000	$ -	$ 1,000
F&I Pipeline - Misc. Items and Appurtances, etc.	$ -	$ 2,500	$ -	$ 2,500
Budget Category (e): Environmental Compliance/Mitigation/Enhancement				
Task 10: Environmental Compliance/Mitigation/Enhancement				
Task 10.1 Biological Site Surveys	$ -	$ 8,000	$ -	$ 8,000
Task 10.2 Implementation of Identified Mitigation Measures	$ -	$ 32,000	$ -	$ 32,000
Budget Category (f): Construction Administration				
Task 11: Construction Administration	$ -	$ 35,000	$ -	$ 35,000
Budget Category (g): Other Costs				
Task 12: Permitting	$ -	$ 33,974	$ -	$ 33,974
Task 13: Legal Service	$ -	$ 40,900	$ -	$ 40,900

Table 5 – Project Budget

Proposal Title: 2013 Hannah Ranch Flood Control & Habitat Conservation Project

Project Title: Hannah Ranch Flood Control & Habitat Conservation Project

	(a)	(b)	(c)	(d)
Budget Category	**Requested Grant Amount**	**Cost Share: Non-State Fund Source* (Funding Match)**	**Cost Share: Other State Fund Source***	**Total Cost**
Budget Category (h): Construction/Implementation Contingency				
Task 9: Construction				
Task 9.1 General				
Task 9.1.1 Mobilization and Demobilization	$ -	$ 18,660	$ -	$ 18,660
Task 9.1.2 Sheeting and Shoring	$ -	$ 6,500	$ -	$ 6,500
Task 9.1.3 Clearing and Grubbing	$ -	$ 6,900	$ -	$ 6,900
Task 9.1.4 Trench Safety Plan	$ -	$ 5,000	$ -	$ 5,000
Task 9.1.5 Site Work	$ -	$ 7,800	$ -	$ 7,800
Task 9.2 Friant-Kern Canal Turnout Structure				
Task 9.2.1 Turnout Structure and Water Screen				
Excavation/Earthwork - Canal Bank	$ 5,400	$ -	$ -	$ 5,400
Demolition - Canal Lining Modifications	$ 375	$ 1,225	$ -	$ 1,600
Structure - Concrete	$ 8,800	$ -	$ -	$ 8,800
Furnish & Install (F&I) Stainless Steel Traveling Water Screen	$ 40,000	$ -	$ -	$ 40,000
F&I Structure Misc. Metals, Grating, etc.	$ 2,000	$ -	$ -	$ 2,000
F&I 72-inch Diameter RCP pipe	$ 24,640	$ -	$ -	$ 24,640
F&I 72-inch Diameter RCP pipe - Road Crossing	$ 32,000	$ -	$ -	$ 32,000
F&I 72-inch Diameter Control Gates	$ -	$ 10,000	$ -	$ 10,000
F&I Turnout Misc. Items and Appurtances, etc.	$ -	$ 1,000	$ -	$ 1,000
F&I Electrical and Controls	$ -	$ 2,000	$ -	$ 2,000
F&I Perimeter Fencing	$ -	$ 300	$ -	$ 300
Task 9.2.2 Hannah Basin Discharge Structure				
Excavation/Earthwork	$ -	$ 400	$ -	$ 400
Energy Dissipating Structure - Concrete	$ -	$ 2,640	$ -	$ 2,640
F&I Rip-Rap	$ -	$ 300	$ -	$ 300
F&I Misc. Items and Appurtances, etc.	$ -	$ 1,000	$ -	$ 1,000
Task 9.3 Hannah Dam Structure				
Overexcavation	$ 14,100	$ -	$ -	$ 14,100
F&I Compacted Embankment at Structure	$ 20,880	$ -	$ -	$ 20,880
F&I Compacted Embankment at Roadways	$ 4,664	$ -	$ -	$ 4,664
F&I Reinforced Concrete Structures	$ 121,440	$ -	$ -	$ 121,440
F&I Reinforced Concrete 6-inch Lining	$ 18,720	$ -	$ -	$ 18,720
F&I Reinforced Concrete 10-inch Lining	$ 14,080	$ -	$ -	$ 14,080
F&I Miscellaneous Metal	$ 9,000	$ -	$ -	$ 9,000
F&I Rip-Rap	$ 4,020	$ -	$ -	$ 4,020
F&I Overshot Gates	$ 118,800	$ -	$ -	$ 118,800
F&I Debris Barrier	$ 6,270	$ -	$ -	$ 6,270
F&I Anchors	$ 13,920	$ -	$ -	$ 13,920
F&I Dewatering	$ 35,000	$ -	$ -	$ 35,000
F&I Electrical Work	$ 24,200	$ -	$ -	$ 24,200
Task 9.4 Hannah Ranch Basin Improvements				
Task 9.4.1 Basin Improvements				
Excavation/Earthwork	$ -	$ -	$ -	$ -
Compacted Embankment	$ -	$ -	$ -	$ -
Misc. Earthwork	$ -	$ 48	$ -	$ 48
Modifications to Existing Structures/Connections	$ -	$ 2,000	$ -	$ 2,000
Sanding of Reservoir Levee Top	$ -	$ -	$ -	$ -
Finish Grading	$ -	$ -	$ -	$ -
Task 9.4.2 Basin/Cell Intertie Structures (6 Total)				
Structure - Concrete	$ -	$ 10,560	$ -	$ 10,560
F&I 72-inch Diameter RCP Pipe	$ -	$ 5,040	$ -	$ 5,040
F&I 72-inch Diameter Control Gates	$ -	$ 30,000	$ -	$ 30,000
F&I Misc. Items and Appurtances, etc.	$ -	$ 3,000	$ -	$ 3,000
F&I Rip-Rap	$ -	$ 1,152	$ -	$ 1,152

Table 5 – Project Budget

Proposal Title: 2013 Hannah Ranch Flood Control & Habitat Conservation Project

Project Title: Hannah Ranch Flood Control & Habitat Conservation Project

	(a)	(b)	(c)	(d)
Budget Category	**Requested Grant Amount**	**Cost Share: Non-State Fund Source* (Funding Match)**	**Cost Share: Other State Fund Source***	**Total Cost**
Task 9.5 Hannah Ranch Turnout Structure				
Excavation/Earthwork	$ -	$ 9,000	$ -	$ 9,000
Structure - Concrete	$ -	$ 13,200	$ -	$ 13,200
F&I Stainless Steel Traveling Water Screen	$ -	$ 60,000	$ -	$ 60,000
F&I Structure Misc. Metals, Grating, etc.	$ -	$ 3,000	$ -	$ 3,000
F&I 72-inch Control Gates	$ -	$ 15,000	$ -	$ 15,000
F&I Turnout Misc. Items and Appurtances, etc.	$ -	$ 2,000	$ -	$ 2,000
F&I Electrical and Controls	$ -	$ 4,000	$ -	$ 4,000
F&I Perimeter Fencing	$ -	$ 1,200	$ -	$ 1,200
Task 9.6 Water Return Structure to Kaweah River				
Excavation/Earthwork	$ -	$ 3,000	$ -	$ 3,000
Structure - Concrete	$ -	$ 3,520	$ -	$ 3,520
F&I Control Gates	$ -	$ 4,800	$ -	$ 4,800
F&I Misc. Items and Appurtances, etc.	$ -	$ 1,000	$ -	$ 1,000
F&I Electrical and Controls	$ -	$ 2,000	$ -	$ 2,000
F&I Perimeter Fencing	$ -	$ 600	$ -	$ 600
Task 9.7 Curtain Wall and Drain System				
Task 9.7.1 Curtain Wall				
Excavation/Earthwork	$ -	$ 5,000	$ -	$ 5,000
Curtain Wall Material (Clay)	$ -	$ 500	$ -	$ 500
Earthwork - Hauling/Transportation	$ -	$ 3,000	$ -	$ 3,000
Misc. Earthwork	$ -	$ 800	$ -	$ 800
Finish Grading	$ -	$ 4,400	$ -	$ 4,400
Task 9.7.2 Drain System				
Excavation/Earthwork	$ -	$ 2,050	$ -	$ 2,050
F&I Gravel	$ -	$ 160	$ -	$ 160
F&I Earthen Material Fill	$ -	$ 330	$ -	$ 330
F&I 4-inch Diameter Perforated Pipe	$ -	$ 22,000	$ -	$ 22,000
F&I Geotextile Material	$ -	$ 6,600	$ -	$ 6,600
F&I Misc. Items and Appurtances, etc.	$ -	$ 200	$ -	$ 200
Task 9.8 Kaweah River Pipeline Crossing and Connections				
Excavation/Earthwork	$ -	$ 8,000	$ -	$ 8,000
F&I Tie-ins/Connections to Existing Pipes and Discharge	$ -	$ 2,000	$ -	$ 2,000
F&I Concrete - Thrust Blocks and Anchors	$ -	$ 1,408	$ -	$ 1,408
F&I 24-inch Diameter RCP Pipe	$ -	$ 6,000	$ -	$ 6,000
Compacted Embankment (Pipeline Crossing)	$ -	$ 100	$ -	$ 100
F&I Air Release Valves	$ -	$ 200	$ -	$ 200
F&I Pipeline - Misc. Items and Appurtances, etc.	$ -	$ 500	$ -	$ 500
Grand Total	**$ 3,109,856**	**$ 3,109,856**	**$ -**	**$ 6,219,712**

***List sources of funding:** *All cost share funding will be sourced from Kaweah Delta Water Conservation District's Major Structures portion of their Reserve Fund.*

ATTACHMENT 4 – BUDGET

APPENDIX B

Engineer's Estimate

TABLE 1
COST ESTIMATE SUMMARY FOR PROJECT ITEMS
HANNAH RANCH BASIN
KAWEAH DELTA WATER CONSERVATION DISTRICT

No.	Line Item	Quantity	Unit	Unit Price	Project Cost Total
	Dam Structure on Kaweah River				
	See Table 2 for details	1	LS	$ 2,025,470	$ 2,025,470
	Friant-Kern Canal Structure				
	See Table 3 for details	1	LS	$ 716,000	$ 716,000
	Groundwater Basin Improvements				
	See Table 4 for details	1	LS	$ 284,600	$ 284,600
	Pipeline Crossing and Connections				
	See Table 5 for details	1	LS	$ 124,040	$ 124,040
	Water Diversion/Turnout Structures				
	See Table 6 for details	1	LS	$ 673,700	$ 673,700
	Curtain Wall and Drain System				
	See Table 7 for details	1	LS	$ 273,200	$ 273,200
	SUBTOTAL				$ 4,097,010
	Contingency		20.00%		819,400
	Engineering, CEQA, surveying, construction inspection		23.00%		942,300
	Legal Costs		1.00%		41,000
	TOTAL PROJECT COST				$ 5,899,710

Notes:

TABLE 2
COST ESTIMATE - HANNAH DAM STRUCTURE (1)
HANNAH RANCH BASIN
KAWEAH DELTA WATER CONSERVATION DISTRICT

No.	Line Item	Quantity	Unit	Unit Price	Project Total
General					
	Mobilization and Demobilization	0	LS	$ 101,300	$ -
	Sheeting and Shoring	0	LS	$ 5,000	$ -
	Clearing and Grubbing	0	LS	$ 15,000	$ -
	F&I Trench Safety Plan	0	LS	$ 5,000	$ -
	Site Work	0	LS	$ 10,000	$ -
Dam Structure					
	Overexcavation	4,700	CY	$ 15	$ 70,500
	Furnish and Install (F&I) Compacted Embankment Struct	5,800	CY	$ 18	$ 104,400
	F&I Compacted Embankment at Roadways	1,060	CY	$ 22	$ 23,320
	F&I Reinforced Concrete Structures	690	CY	$ 880	$ 607,200
	F&I Reinforced Concrete 6-inch Lining	180	CY	$ 520	$ 93,600
	F&I Reinforced Concrete 10-inch Lining	160	CY	$ 440	$ 70,400
	F&I Miscellaneous Metal	5000	pounds	$ 9	$ 45,000
	F&I Rip-Rap	335	Sq Yards	$ 60	$ 20,100
	F&I Overshot Gates	9	EA	$ 66,000	$ 594,000
	F&I Debris Barrier	190	LF	$ 165	$ 31,350
	F&I Anchors	12	EA	$ 5,800	$ 69,600
	F&I Dewatering	1	LS	$ 175,000	$ 175,000
	F&I Electrical Work	1	LS	$ 121,000	$ 121,000
	SUBTOTAL				$ 2,025,470
	Contingency		20.00%		405,100
	Engineering, CEQA, surveying, construction inspection		23.00%		465,900
	Legal Costs		1.00%		20,300
	TOTAL PROJECT COST				$ 2,916,770

Notes:
1. Based upon McKay's Point Bid Schedule.

TABLE 3
COST ESTIMATE - FRIANT-KERN CANAL TURNOUT STRUCTURE
HANNAH RANCH BASIN
KAWEAH DELTA WATER CONSERVATION DISTRICT

No.	Line Item	Quantity	Unit	Unit Price	Project Cost Total
General					
	Mobilization and Demobilization	1	LS	$ 34,100	$ 34,100
	Sheeting and Shoring	1	LS	$ 12,500	$ 12,500
	Clearing and Grubbing	1	LS	$ 1,000	$ 1,000
	F&I Trench Safety Plan	1	LS	$ 5,000	$ 5,000
	Site Work	1	LS	$ 3,000	$ 3,000
Turnout Structure and Screen					
	Excavation/Earthwork - Canal Bank	135	CY	$ 200	$ 27,000
	Demolition - Canal Lining Modifications	320	SF	$ 25	$ 8,000
	Structure - Concrete	50	CY	$ 880	$ 44,000
	F&I SS Traveling Water Screen (SS Frame)	2	EA	$ 100,000	$ 200,000
	Structure - Misc. Metals, Grating, etc.	2	EA	$ 5,000	$ 10,000
	F&I 72-inch diameter RCP pipe	440	LF	$ 280	$ 123,200
	F&I 72-inch diameter RCP pipe - Road Crossing	160	LF	$ 1,000	$ 160,000
	F&I 72-inch dia. Control Gates	2	EA	$ 25,000	$ 50,000
	Turnout - Misc. Items and Appurtances, etc.	1	LS	$ 5,000	$ 5,000
	F&I Electrical and Controls	1	LS	$ 10,000	$ 10,000
	Perimeter Fencing	100	LF	$ 15	$ 1,500
Pond Discharge Structure					
	Excavation/Earthwork	10	CY	$ 200	$ 2,000
	Energy Dissipating Structure - Concrete	15	CY	$ 880	$ 13,200
	F&I Rip-Rap	25	Sq Yards	$ 60	$ 1,500
	Misc. Items and Appurtances, etc.	1	LS	$ 5,000	$ 5,000
	SUBTOTAL				$ 716,000
	Contingency		20.00%		143,200
	Engineering, CEQA, surveying, construction inspection		23.00%		164,700
	Legal Costs		1.00%		7,200
	TOTAL PROJECT COST				$ 1,031,100

TABLE 4
COST ESTIMATE - GROUNDWATER BASIN IMPROVEMENTS
HANNAH RANCH BASIN
KAWEAH DELTA WATER CONSERVATION DISTRICT

No.	Line Item	Quantity	Unit	Unit Price	Project Total
General					
	Mobilization and Demobilization	1	LS	$ 13,600	$ 13,600
	Sheeting and Shoring	0	LS	$ -	$ -
	Clearing and Grubbing	1	LS	$ 6,000	$ 6,000
	F&I Trench Safety Plan	0	LS	$ -	$ -
	Site Work	1	LS	$ 6,000	$ 6,000
Groundwater Basin Improvements					
	Excavation/Earthwork	2,904,000	CY	$ -	$ -
	Compacted Embankment - New (9,200 L.F.)	36,800	CY	$ -	$ -
	Misc. Earthwork	60	CY	$ 4.00	$ 240
	Modifications to existing structures/connections	1	LS	$ 10,000	$ 10,000
	Sanding of Reservoir Levee Top	9,200	LF	$ -	$ -
	Finshing Grading	9,200	LF	$ -	$ -
	Basin/Cell Intertie Structures (6 Total)				
	Structure - Concrete	60	CY	$ 880	$ 52,800
	F&I 72-inch RCP pipe	90	LF	$ 280	$ 25,200
	F&I 72-inch diameter control gates	6	EA	$ 25,000	$ 150,000
	Misc. Items and Appurtances, etc.	6	EA	$ 2,500	$ 15,000
	F&I Rip-Rap	96	Sq Yards	$ 60	$ 5,760
	SUBTOTAL				$ 284,600
	Contingency		20.00%		56,900
	Engineering, CEQA, surveying, construction inspection		23.00%		65,500
	Legal Costs		1.00%		2,800
	TOTAL PROJECT COST				$ 409,800

TABLE 5
COST ESTIMATE - KAWEAH RIVER PIPELINE CROSSING AND CONNECTIONS
HANNAH RANCH BASIN
KAWEAH DELTA WATER CONSERVATION DISTRICT

No.	Line Item	Quantity	Unit	Unit Price	Project Cost Total
General					
	Mobilization and Demobilization	1	LS	$ 500	$ 500
	Sheeting and Shoring	1	LS	$ 7,500	$ 7,500
	Clearing and Grubbing	1	LS	$ 5,000	$ 5,000
	F&I Trench Safety Plan	1	LS	$ 10,000	$ 10,000
	Site Work	1	LS	$ 10,000	$ 10,000
Pipeline Crossing and Connections					
	Excavation/Earthwork	200	CY	$ 200	$ 40,000
	Tie-ins/Connections to existing pipes and discharge	2	EA	$ 5,000	$ 10,000
	Concrete - Thrust blocks and anchors	8	CY	$ 880	$ 7,040
	F&I 24-inch diameter RCP pipe	300	LF	$ 100	$ 30,000
	Compacted Embankment (Pipeline Crossing)	50	LF	$ 10.00	$ 500
	Air Release Valves	2	EA	$ 500	$ 1,000
	Pipeline - Misc. Items and Appurtances, etc.	1	LS	$ 2,500	$ 2,500
	SUBTOTAL				$ 124,040
	Contingency		20.00%		24,800
	Engineering, CEQA, surveying, construction inspection		23.00%		28,500
	Legal Costs		1.00%		1,200
	TOTAL PROJECT COST				$ 178,540

Notes:

TABLE 6
COST ESTIMATE - WATER DIVERSION AND TURNOUT STRUCTURES
HANNAH RANCH BASIN
KAWEAH DELTA WATER CONSERVATION DISTRICT

No.	Line Item	Quantity	Unit	Unit Price	Project Cost Total
General					
	Mobilization and Demobilization	1	LS	$ 32,100	$ 32,100
	Sheeting and Shoring	1	LS	$ 7,500	$ 7,500
	Clearing and Grubbing	1	LS	$ 7,500	$ 7,500
	F&I Trench Safety Plan	1	LS	$ 5,000	$ 5,000
	Site Work	1	LS	$ 10,000	$ 10,000
Turnout Structure and Screen					
	Excavation/Earthwork	225	CY	$ 200	$ 45,000
	Structure - Concrete	75	CY	$ 880	$ 66,000
	F&I SS Traveling Water Screen (SS Frame)	3	EA	$ 100,000	$ 300,000
	Structure - Misc. Metals, Grating, etc.	3	EA	$ 5,000	$ 15,000
	F&I 72-inch Control Gates	3	EA	$ 25,000	$ 75,000
	Turnout - Misc. Items and Appurtances, etc.	1	LS	$ 10,000	$ 10,000
	F&I Electrical and Controls	1	LS	$ 20,000	$ 20,000
	Perimeter Fencing	400	LF	$ 15	$ 6,000
Water Return Structure					
	Excavation/Earthwork	75	CY	$ 200	$ 15,000
	Structure - Concrete	20	CY	$ 880	$ 17,600
	F&I Control Gates	3	EA	$ 8,000	$ 24,000
	Misc. Items and Appurtances, etc.	1	LS	$ 5,000	$ 5,000
	F&I Electrical and Controls	1	LS	$ 10,000	$ 10,000
	Perimeter Fencing	200	LF	$ 15	$ 3,000
	SUBTOTAL				$ 673,700
	Contingency		20.00%		134,700
	Engineering, CEQA, surveying, construction inspection		23.00%		155,000
	Legal Costs		1.00%		6,700
	TOTAL PROJECT COST				$ 970,100

TABLE 7
COST ESTIMATE - CURTAIN WALL AND DRAIN SYSTEM
HANNAH RANCH BASIN
KAWEAH DELTA WATER CONSERVATION DISTRICT

No.	Line Item	Quantity	Unit	Unit Price	Project Total
General					
	Mobilization and Demobilization	1	LS	$ 13,000	$ 13,000
	Sheeting and Shoring	1	LS	$ 5,000	$ 5,000
	Clearing and Grubbing	1	LS	$ 15,000	$ 15,000
	F&I Trench Safety Plan	1	LS	$ 5,000	$ 5,000
	Site Work	1	LS	$ 10,000	$ 10,000
Curtain Wall					
	Excavation/Earthwork	5,000	CY	$ 5.00	$ 25,000
	Curtain Wall Material (KRR clay)	5,000	CY	$ 0.50	$ 2,500
	Earthwork - Hauling/Transportation	5,000	CY	$ 3.00	$ 15,000
	Misc. Earthwork	1,000	CY	$ 4.00	$ 4,000
	Finshing Grading	11,000	LF	$ 2.00	$ 22,000
Drain System					
	Excavation/Earthwork	2,050	CY	$ 5.00	$ 10,250
	Gravel	400	CY	$ 2.00	$ 800
	Fill	1,650	CY	$ 1.00	$ 1,650
	4-inch Diameter Perforated pipe	11,000	LF	$ 10.00	$ 110,000
	Geotextile	44,000	SF	$ 0.75	$ 33,000
	Misc Items and Appurtances, etc.	1	EA	$ 1,000	$ 1,000
	SUBTOTAL				$ 273,200
	Contingency		20.00%		54,600
	Engineering, CEQA, surveying, construction inspection		23.00%		62,800
	Legal Costs		1.00%		2,700
	TOTAL PROJECT COST				$ 393,300