

### **Attachment 3 - Scope of Work for Agricultural and Land-Based Training Association; Carneros Creek Wetland Restoration and Stream Crossing**

TASK #1: Conduct geotechnical investigation, topographical surveys, hydraulic analysis, alternative analysis, and complete engineered design to replace the dirt road wet ford with a stream crossing that minimizes water quality and ecologic impacts on the stream corridor and wetlands.

Subtasks:

- 1.1 ALBA will establish a contract with a water resource engineer, likely Fall Creek Engineering.
- 1.2 Water resource engineer will conduct a topographic survey and a geotechnical investigation, and will prepare base maps of the project sites.
- 1.3 Water resource engineer will collaborate with RCDMC staff to ensure compatibility between the stream crossing and wetland restoration designs and conformance with Wetland Reserve Program requirements.
- 1.4 Water resource engineer will develop a suite of conceptual designs for the improved stream crossing.
- 1.5 Water resource engineer will incorporate design revisions in response to comments by stakeholder and regulatory agencies and produce a final design.
- 1.6 Water resource engineer will inspect construction of improved stream crossing.

DELIVERABLES:

The following material will be submitted as evidence of project performance:

- 1) Contract Agreements
- 2) Base Maps
- 3) Conceptual Designs of Stream Crossing and Water Control Structures
- 4) Record of Comments by Stakeholder and Regulatory Agencies
- 5) Final Design of Stream Crossing and Water Control Structures
- 6) As-Built Report

TIMELINE:

January 2006 – June 2006

EXPENSES:

How much has been budgeted for this task? \$31,927.04

What percentage (%) of the total tasks budget does this amount represent? 17.78%

TASK #2: Produce engineered restoration designs for a 40-acre wetland complex.

Subtasks:

- 2.1 ALBA will contract with the Resource Conservation District of Monterey County (RCDMC) to conduct wetland restoration design.
- 2.2 RCDMC will coordinate with Water Resources Engineer and NRCS biologists to ensure compatibility between designs and conformance with Wetland Reserve Program (WRP) requirements.

- 2.3 RCDMC will assess sources of water quality impairment, the watershed sediment yield and hydrology, and incorporate pollution prevention, water quality treatment and geomorphic stability into design.
- 2.4 RCDMC will investigate floodplain soils, local groundwater and potential plant communities and incorporate target ecosystems into design.
- 2.5 RCDMC will develop a suite of conceptual designs for the restored wetlands.
- 2.6 RCDMC will incorporate design revisions in response to comments by stakeholder and regulatory agencies and produce a final design.
- 2.7 If funding is awarded and distributed by the WRP to construct the wetland (which is likely), the RCDMC staff will inspect construction of the restoration design.

This task will take place at the project site and in the offices of the entities involved. It will be conducted by the Resource Conservation District of Monterey County in collaboration with ALBA staff, the technical advisory committee and the water resources engineer.

#### DELIVERABLES:

The following material will be submitted as evidence of project performance:

- 1) Contract Agreements
- 2) Progress Reports
- 3) Water Quality Assessment, Sediment Yield and Geomorphic Stability Design Report
- 4) Floodplain Soils, Groundwater and Target Ecosystems Design Report
- 5) Conceptual Designs for Wetland Restoration
- 6) Record of Comments by Stakeholder and Regulatory Agencies
- 7) Final Design of Wetland Restoration
- 8) If funding is awarded and distributed by the WRP, there will be an As-Built Report

#### TIMELINE:

January 2005 – December 2008

#### EXPENSES:

How much has been budgeted for this task? \$92,704.04

What percentage (%) of the total tasks budget does this amount represent? 51.63%

**TASK #3:** Establish project alternatives, assemble experts to advise and choose among them, and provide input to engineered design process to ensure water quality improvement, regulatory compliance and long-term sustainability.

#### Subtasks:

- 3.1 ALBA will recruit experts to participate in a technical advisory group, and will subcontract with experts as needed to secure their involvement.
- 3.2 ALBA will organize project alternatives in a logical decision-making framework.
- 3.3 ALBA will assemble stakeholders and experts to expand on the Triple M Ranch Management Plan and consider specific alternatives.

Activities will be carried out by ALBA, consultants and project cooperators. For road improvement design, we expect to work with Fall Creek Engineering of Santa Cruz. For wetland expansion, we will

work with the Resource Conservation District of Monterey County. Technical advisory committee meetings will be held on site or at another location nearby.

**DELIVERABLES:**

The following material will be submitted as evidence of project performance:

- 1) Technical advisory committee (TAC) membership list
- 2) Minutes of TAC meetings
- 3) Report on project alternatives and decision-making process
- 4) Report on requirements for regulatory compliance

**TIMELINE:**

January 2006 – December 2008

**EXPENSES:**

How much has been budgeted for this task? \$16,390.72

What percentage (%) of the total tasks budget does this amount represent? 9.13%

**TASK #4:** Define appropriate permits and seek additional funding sources to apply for permits and assure timely and complete project implementation. (In-Kind match – no RWQCB funds requested for this task)

While the early stages of construction are included in Task #5 and permits are not secured, it is imperative that the design work be completed in order to apply for permits. No construction will take place without permits.

**Subtasks:**

- 4.1 NRCS will advise on federal permits necessary for construction, which of those permits can be managed by NRCS, and other matters relating to federal regulatory compliance.
- 4.2 ALBA will work with local permitting agencies to determine and apply for necessary permits.
- 4.3 ALBA and NRCS will facilitate comments by regulatory agencies to ensure the selected design alternative includes all elements required for permitting.
- 4.4 Identify and apply for additional funds from the NRCS Wetlands Reserve Program, other cost-share incentives and private funding sources to acquire resources for permits and overall project success.
- 4.5 ALBA will apply for permits and meet with public agencies, as necessary.

The regulatory compliance work will be carried out by NRCS and consultants with expertise in acquiring proper environmental and construction permits as they pertain to this project. The grant request does not include resources for additional fundraising activities. ALBA and RCD staff will work on an in-kind matching basis to seek additional project funds as opportunities arise.

**DELIVERABLES:**

The following material will be submitted as evidence of project performance:

- 1) Comprehensive Permitting Plan
- 2) Permit Applications
- 3) WRP, Conservation Cost-Share and other Grant Applications for Project Implementation

TIMELINE:

January 2005 – December 2008

EXPENSES:

How much has been budgeted for this task? \$0 / \$13,554.66 in-kind match

What percentage (%) of the total tasks budget does this amount represent? 0%

TASK #5: Implement Wetland Reserve Program construction and plant installation contract.

Following completion of the permitting task, we will proceed with early stages of project construction.

No Task #5 dollars will be expended until all permits are secured. The performance of this task is pending the approval of the Wetlands Reserve Program application, for which we are currently highly ranked.

Subtasks:

5.1 Seek bids, hire and manage contractors for preliminary stages of project construction.

5.2 Plan and establish native plant communities necessary for wetland restoration and water quality improvement.

5.3 Document final project.

This work will be conducted at the project site with the involvement of the ALBA Executive Director, Natural Resources Manager, Farm Manager, the RCDMC, California Conservation Corps and other project parties.

DELIVERABLES:

The following material will be submitted as evidence of project performance:

- 1) Bids and evidence of an open, competitive project bidding process
- 2) Photographic evidence of project staking and construction inspection
- 3) Wetland Reserve Program contract
- 4) Photographic evidence indicating the establishment of native plant communities

TIMELINE:

July 2006 – December 2008

EXPENSES:

How much has been budgeted for this task? \$38,521.21

What percentage (%) of the total tasks budget does this amount represent? 21.46%

Table 1. Task budget summary

Tasks Budget		
TASK #	FUNDS REQUESTED	FUNDS MATCH
Task 1	31,297.04	8,695.86
Task 2	92,704.72	17,880.00
Task 3	16,390.72	5,040.00
Task 4	0.00	13,554.66
Task 5	38,521.21	6,887.48

**Table 2. Deliverables Schedule**

<b>Tasks</b>	<b>Description of Deliverables</b>	<b>Completion Dates</b>
1.0	Conduct technical investigations.	June 2006
1.1	Contract Agreements	February 2006
1.2	Base Maps	April 2006
1.3	Report on conformance with Wetlands Reserve Program (WRP)	June 2006
1.4	Conceptual Designs of Stream Crossing and Water Control Structures	June 2006
1.5	Record of Comments by Stakeholder and Regulatory Agencies	December 2006
1.6	Final Design / As-Built Report	June 2006 / 2008
2.0	Produce engineered restoration designs for a 40-acre wetland complex.	December 2008
2.1	Contract Agreements	February 2006
2.2	Progress Reports on WRP conformance	June 2006 / ongoing
2.3	Water Quality Assessment, Sediment Yield and Geomorphic Stability Design Report	June 2006
2.4	Floodplain Soils, Groundwater and Target Ecosystems Design Report	December 2006
2.5	Conceptual Designs for Wetland Restoration	December 2006
2.6	Record of Comments by Stakeholder and Regulatory Agencies	December 2006
2.7	Final Design of Wetland Restoration / As-Built Report	Dec. 2006 / 2008
3.0	Establish project alternatives	December 2008
3.1	Technical Advisory Committee membership and minutes of meetings	March 2007 / ongoing
3.2	Report on project alternatives and decision-making process	April 2007
3.3	Report on requirements for regulatory compliance	December 2008
4.0	Define appropriate permits and seek additional funding sources (In-Kind match – no RWQCB funds requested for this task)	December 2008
4.1	Summary of NRCS comments regarding federal permitting	January 2007
4.2	Summary of state/local permit requirements based on project design	April 2007
4.3	Summary of federal permit requirements based on project design	April 2007
4.4	Applications to NRCS WRP and other funding agencies	June 2007
4.5	Permit applications	June 2007
5.0	Implement Wetland Reserve Program construction and plant installation contract.	December 2008
5.1	Bids and evidence of an open, competitive project bidding process	October 2007
5.2	Photographic evidence of project staking/construction inspection and early establishment of native plant communities	October 2007/2008
5.3	Wetland Reserve Program contract	December 2007

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