

Scope of Work

USBR West Salt River Valley Basin Study

Introduction

The West Valley Water Association (WVWA) is working with the United States Bureau of Reclamation (USBR) to complete the West Salt River Valley Basin Study. The WVWA has prepared this Scope of Work describing needed review of the study and assistance in completing a draft version of the study. We are seeking a consultant that will coordinate and work with both the USBR and the WVWA on this project. However, WVWA will be the main contact for the consultant.

Project Understanding

WVWA would like assistance with the following four required USBR Basin Study tasks and finalization of the Basin Study Report:

- Task 1 – Hydrologic Projections of Water Supply and Demand
- Task 2 – An Analysis of How Existing Water and Power Infrastructure and Operations Will Perform in the Face of Changing Water Realities.
- Task 3 – Development of Adaptation and Mitigation Strategies
- Task 4 – Analysis of Adaptation and Mitigation Strategies.
- Task 5 – Finalization of Basin Study Report

Each of these tasks is described in the following section:

Task 1 – Hydrologic Projections of Water Supply and Demand

This task conducts an analysis of existing and future water supply and demand conditions that includes consideration of key hydrologic factors that influence water supply and demand within the West Salt River Basin. Assistance is needed in the review and compilation of data of the ongoing Draft West Salt River Valley Basin Study Groundwater Flow Modeling Report prepared by Southwest Groundwater and the CAP:SAM Model prepared by CAWCD. The consultant will assist in the identification of data deficiencies, particularly those that are needed to finalize of the groundwater model. The consultant will work closely with the USBR, Southwest Groundwater, CAWCD, and WVWA members and present the data/information in a format that is easily reviewed by the WVWA members. The review should be completed by XX-XX, 2018.

The consultant will prepare a summary to fulfill the requirements of Hydrologic Projections of Water Supply and Demand as outlined in the Basin Study Framework 5.4.1.

Task 2 – An Analysis of How Existing Water and Power Infrastructure and Operations Will Perform in the Face of Changing Water Realities

The consultant will oversee the technical writing for this section of the larger West Salt River Valley Basin Study report. This task will include an analysis of the capability of existing and proposed infrastructure and operations to meet future demands and water supply challenges. The review will take place of the information already included in the draft report from Task 1 along with identifying areas where additional information or revisions are required based on project information. The draft analysis (especially if the analysis includes multiple authors) will be reviewed and revised for clarity and consistency of writing. The consultant will update and/or complete sections of the report based on input from the USBR, Southwest Groundwater, CAWCD, and WVWA.

Task 3– Development of Adaptation and Mitigation Strategies

The consultant will oversee the technical writing for this section of the larger West Salt River Valley Basin Study report. This task includes a discussion of the process used to develop adaptation and mitigation strategies to address current and future imbalances between water supply and demands, and descriptions of these strategies. Review will take place of the information already included in the draft report along with identifying areas where additional information or revisions are required based on project information. The draft analysis (especially if the analysis includes multiple authors) will be reviewed and revised for clarity and consistency of writing. The consultant will update and/or complete sections of the report based on input from the USBR, Southwest Groundwater, CAWCD, and WVWA.

Task 4 – Analysis of Adaptation and Mitigation Strategies

The consultant will oversee the technical writing for this section of the larger West Salt River Valley Basin Study report. This task includes an analysis of each strategy’s ability to meet the study objectives, minimize imbalances between water supply and demand, address possible impacts of climate change, and potential environmental impacts. It will also identify potential constraints affecting the strategies considered and look at next steps. Review will take place of the information already included in the draft report along with identifying areas where additional information or revisions are required based on project information. The draft analysis (especially if the analysis includes multiple authors) will be reviewed and revised for clarity and consistency of writing. The consultant will update and/or complete sections of the report based on input from the USBR, Southwest Groundwater, CAWCD, and WVWA.

Task 5 – Finalization of Basin Study Report

The consultant will be the lead for the overall review and editing of the Draft Basin Study Report. Executive summaries will be reviewed and edited based on the main Basin Study Report and appendices. In coordination with the USBR, Southwest Groundwater, CAWCD, and WVWA, meetings may be held to discuss any comments and how they will be incorporated into the report. The consultant will revise the Draft Report based on the comments and will prepare a response to comments detailing how comments on the Draft Report were addressed. The consultant will submit an electronic version of the preliminary final report to the USBR, Southwest Groundwater, CAWCD, and WVWA for review prior to finalizing the Report.

Final Scope and Cost Estimate

The estimated cost for this Scope of Work is presented below for each Task:

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|---|---------------|
| • Task 1- Hydrologic Projections of Water Supply and Demand | \$XXXX |
| • Task 2- An Analysis of How Existing Water and Power Infrastructure and Operations Will Perform in the Face of Changing Water Realities | \$XXXX |
| • Task 3- Development and Adaptation and Mitigation Strategies | \$XXXX |
| • Task 4- Analysis of Adaption and Mitigation Strategies | \$XXXX |
| • Task 5- Production of Final Report | \$XXXX |
| • Total Estimated Cost | \$XXXX |

The consultant will perform this work on a Time and Materials basis. The total estimated costs provided above will not be exceeded without prior approval from the WVWA. The consultant will provide a summary estimate of labor hours and associated costs for this Scope of Work using the attached format.

Other details of this Scope of Work are as follows:

All written materials will follow guidelines as per the Bureau of Reclamation publications below and in conjunction with Bureau of Reclamation personnel:

1. USBR, 2013. Basin Study Framework: Water SMART Program, pp. 29
2. USBR, 2015. WTR TRMR-65. Reclamation Manual, Directives and Standards. Temporary Release 01/21/2015
3. USBR, Metropolitan Phoenix West Salt River Basin Study, Plan of Study, 2014

West Salt River Valley Basin Study
Labor Hours and Cost Estimate

No..	Task Description	Project Manager (Hours)	Labor Subtotal Billing Rate \$XX	Misc. Expenses	Total Cost
Task 1	Hydrologic Projections of Water Supply and Demand		\$X		\$X
Task 2	Analysis of How Existing Water and Power Infrastructure and Operations will Perform in the Face of Changing Water Realities		\$X		\$X
Task 3	Development and Adaptation and Mitigation Strategies		\$X		\$X
Task 4	Analysis of Adaption and Mitigation Strategies		\$X		\$X
Task 5	Finalization of Final Report				
Total Labor Hours and Price			\$X		\$X