

Exhibit “A” - Scope of Work

1. Project Services. Consultant agrees to perform professional services for a project known and described as Wash Management Plan (“Project”). The Services are described in the following subtasks:

Task 1. – Data Collection

- a. Review the previously completed hydrologic analysis completed for the City. The previously completed analysis is the Existing Conditions Analysis and Prioritization Report, Engineering Analysis & Recommendations Report, and the Lake Havasu City FEMA Risk Map Project.
- b. Obtain and review City GIS data including wash reaches, storm drains, catch basins, channels, culverts and topography. Topography is from the City, USGS, Mohave County or other available sources.
- c. Evaluate the previously completed hazard assessment and rankings completed with the Prioritization Report. The evaluation includes overlaying the previous hazard assessments with the modelling results of the FEMA Risk Map Project.
- d. Conduct a field visit with necessary City Public Works operations to review the previously completed rankings. Visit other problem areas for the City Public Works in the City limits.

Task 2. – Wash Management Plan

- a. Update rankings from previously completed reports and meetings with City Public Works staff. The ranking categories are coordinated with City staff. The top ten (10) projects from the ranking are carried forward for further implementation.
- b. Develop alternatives for each of the ten (10) wash reaches to mitigate flood hazards. Up to two (2) alternatives are developed for each of the wash reaches. Alternatives include but are not limited to bank protection and drop structures.
- c. Prepare a list of anticipated quantities and construction costs for each of the ten (10) reaches alternatives.
- d. Assess the alternatives with City staff to determine the recommended alternative for each reach. The recommended alternative is decided based on costs, constructability, and City staff preferences.
- e. Prepare an existing and proposed conditions preliminary hydraulic analysis for the top ten (10) projects identified by City staff. The preliminary hydraulic analysis uses obtained mapping and results from the FEMA Risk Map Project.
- f. Develop exhibits for each of the ten (10) reaches recommended alternative. The exhibits for each of the reaches are anticipated to be 15% level of design. The exhibits identify proposed concepts and constraints.

- g. Prepare a report to document the management plan. The Wash Management Plan summarizes the evaluations, ranking, hydraulics, construction costs and implementation approach. A Draft Wash Management Plan and Final Wash Management Plan is prepared for review by the City. The Consultant responds to one round of comments for the report.

Task 3. - Meetings

- a. Attendance at the following meetings as a part of this Project:
 - i. Kickoff Meeting
 - ii. Alternative Review Meeting (2 meetings)
 - b. Meetings are assumed to be attended by the Project Manager and Project Engineer in the City's office and any technical support participation is by teleconference.
 - c. Responsible for preparing meeting agendas, exhibits, and notes.
 - d. Any meetings beyond those listed above are considered additional services.
 - e. Prepare a summary of comments received following each submittal. The summary includes a response and how it was addressed.
2. Schedule. The Services will commence upon receipt of an executed Agreement and will take 12 months.
 3. Services Not Included.

The following items/services are not included in this scope of work and fee schedule. If these items/services are determined to be required, a separate agreement by contract amendment or new contract shall be coordinated between City and the Consultant.

- Hydrology
- Floodplain revision applications
- Survey and topography mapping services
- Final design services
- Environmental Permitting and Assessments
- Other environmental services
- Public involvement
- Permit or plan review fees