

Attachment 1

Attachment A-2

Amendment #3

Scope of Work

This scope of work describes only the additional scope added via the amendment.

1. OVERALL PROGRAM MANAGEMENT ASSISTANCE

Consultant will continue overall program management assistance as needed, subject to available task funds. Anticipated activities include:

- Assisting with planning and coordination of work among consultants including those for environmental studies and design.
- Assisting with procuring additional consultant assistance as required.
- Assistance with interagency cooperation.

Deliverables: as directed; for example draft briefing materials, review comments on work of technical consultants, strategic advice, draft procurement documents (RFQ, RFP) for consultant services.

2. OTHER SERVICES

2.1 Project Alternatives Evaluation

As requested, Consultant will define and evaluate potential additional conveyance alternatives (e.g., "NML-1" and potentially variants thereof), to be considered alongside alternatives (PETA-3, PETA-4, COTATI-3, etc) already developed and evaluated as part of earlier studies. Specific aspects of the work may include defining operational concepts and facility descriptions, estimating costs and evaluating performance relative to program goals. As requested, Consultant will support Board or community discussions.

2.2 Other Services

As requested, Consultant will provide other services in support of the roadmap implementation, such as:

- Assistance identifying and pursuing grant funding opportunities
- Assistance responding to inquiries from the public

Deliverables: as directed; for example, technical memoranda, maps, schematics, or presentation materials.

3. WATER SUPPLY MODELING

Consultant will continue to support the program by enhancing and applying the existing MarinSim water system model and accompanying Excel tools.

The area of focus will be operational optimization of the ARC conveyance project selected by the District. The Excel tool and model already developed to help evaluate capital projects will be further refined to evaluate operational strategies based on risk reduction and operational cost.

The model will also be updated to incorporate recent years' data including that for demand, environmental releases and hydrology.

Consultant will develop an Operations Plan for the ARC conveyance project that summarizes the key assumptions and operational strategies to guide operations of the project.

Deliverables: working model files; model results; Excel tool; training; operations plan

4. IN-DISTRICT BOTTLENECK REFINEMENT

Consultant will select and refine up to three portfolios from the previous bottlenecks analysis to assess feasibility for future inclusion in the District's capital improvement program. Selection will involve screening previously identified portfolios to identify the three most promising portfolios for consideration, using criteria such as cost, yield, implementability and operational flexibility. Unselected portfolios will not be eliminated; rather, they will be de-prioritized relative to selected portfolios based on existing information. The selected portfolios will be further refined to assess costs and benefits.

The following subtasks comprise the work:

4.1 Workshops and Meetings

Workshops as needed with District staff to validate key assumptions, present results and seek feedback. Up to two virtual workshops are assumed.

4.2 Screen Portfolios

Consultant will develop screening and evaluation criteria to apply to portfolios identified in prior analyses. Criteria are likely to include cost (developed at the time of the prior analysis), hydraulic performance, constructability/implementability, environmental considerations and operational flexibility. Criteria will be discussed and finalized at a workshop with the District under Task 4.1 before screening is conducted.

Consultant will screen the portfolios, resulting in the selection of up to three portfolios for further consideration as part of this analysis. Consultant will document the results of the screening in PowerPoint format, along with an accompanying Excel workbook. District will review results of the screening and provide a single, consolidated, consistent set of comments for consideration. Consultant will update screening based on feedback from the District and finalize selection of up to three portfolios prior to conducting further assessments.

4.3 Refine Selected Portfolios & Assess Feasibility

Consultant will prepare conceptual layouts for each of the selected portfolios. These will be high-level, illustrating the location of portfolio projects with respect to District facilities, and consider probable sizing for all facilities included in each portfolio.

Consultant will update modeling assumptions (including capacity and status of specific District facilities) before modeling multi-season performance for each of the three selected portfolios. Modeling multi-season performance will allow the Consultant and the District to determine the utility of each portfolio across a range of flows; it may also identify other system benefits beyond winter-water availability. Consultant will revisit facility sizing for each portfolio at the conclusion of modeling efforts.

Consultant will develop cost estimates (Class 5) for each selected portfolio based on the conceptual layout and proposed facility sizing developed earlier in the analysis. Consultant will also perform a constructability review for each selected portfolio to identify potential conflicts, considerations, or roadblocks to implementation. This constructability review will be documented in narrative format. Consultant will also identify environmental markers near selected portfolio facilities. Consultant will conduct a relative cost-benefit analysis for each of the selected portfolios. The cost benefit analysis will quantify benefits where practicable; not all benefits (e.g., system flexibility) are expected to be quantified.

Consultant will document findings from Task 4.3 through either a standalone TM or as an update to the previously completed Bottlenecks TM. Documentation is captured in Task 4.4.

4.4

4.5 Technical Memorandum

The results of this task will be summarized in a Draft and Final TM.

Deliverables:

- Draft and final updated technical memorandum summarizing all work done under this Task.
- Workshop presentation materials for up to 2 workshops (e.g., one to confirm projects and discuss criteria, one to identify a preferred alternative for each project, and a third to review conceptual designs).

Assumptions (Task 4):

- Summer flow conditions will be evaluated to confirm project sizing, but benefits of water supply will be based on winter-water analysis.
- Conceptual layouts will include Bluebeam, GIS, or Google-earth sketches, not CAD drawings.

Assumption (all tasks):

- Level of effort is limited to available funds.
- Task budgets may be reallocated among tasks to align with program needs.