

AMENDMENT NO. 11

AGREEMENT FOR PROFESSIONAL SERVICES  
FOR  
ENVIRONMENTAL SERVICES  
BETWEEN  
THREE RIVERS LEVEE IMPROVEMENT AUTHORITY AND  
AECOM TECHNICAL SERVICES, INC.

THIS ELEVENTH AMENDATORY AGREEMENT is made effective  
NOV 17, 2015, by and between Three Rivers Levee Improvement Authority  
("TRLIA") and AECOM Technical Services, Inc. ("the Consultant"), who agree as  
follows:

1. **Recitals.** This Amendment is made with reference to the following background recitals:
  - 1.1. Effective February 2, 2012 the parties entered into an Agreement for Professional Services relating to Environmental Services for TRLIA's Construction Program.
  - 1.2. Effective August 7, 2012 the parties entered into the first Amendatory Agreement to increase the budget by \$25,000 to a total of \$125,000.
  - 1.3. Effective December 18, 2012 the parties entered into a second Amendatory Agreement to increase the budget by \$44,955 to a total of \$169,955.
  - 1.4. Effective April 9, 2013 the parties entered into a third Amendatory Agreement to increase the budget by \$74,000 to a total of \$243,955.
  - 1.5. Effective May 7, 2013 the parties entered into a fourth Amendatory Agreement to increase the budget by \$29,705 to a total of \$273,660.
  - 1.6. Effective October 1, 2013 the parties entered into a fifth Amendatory Agreement to increase the budget by \$475,000 to a total of \$748,660; and extend the Termination Date of the contract to December 31, 2015.
  - 1.7. Effective May 6, 2014 the parties entered into a sixth Amendatory Agreement to increase the budget by \$35,000 to a total of \$783,660.
  - 1.8. Effective September 16, 2014 the parties entered into a seventh Amendatory Agreement to increase the budget by \$209,735 to a total of \$993,395.
  - 1.9. Effective March 3, 2015 the parties entered into an eighth Amendatory Agreement to increase the budget by \$382,386 to a total of \$1,375,781; and extend the Termination Date of the contract to December 31, 2016 .
  - 1.10. Effective July 14, 2015 the parties entered into a ninth Amendatory Agreement to increase the budget by \$22,800 to a total of \$1,398,581.

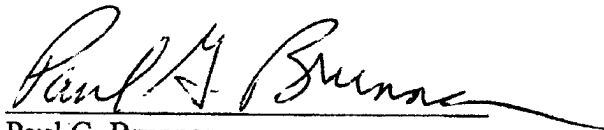
- 1.11. Effective October 28, 2015 the parties entered into a tenth Amendatory Agreement to increase the budget by \$109,760 to a total of \$1,508,341.
- 1.12. Article C.23 of the AGREEMENT, states that modifications or amendments to the terms of the AGREEMENT shall be in writing and executed by both parties;
- 1.13. TRLIA and the CONSULTANT desire to amend the AGREEMENT;

NOW, THEREFORE, TRLIA and the CONSULTANT agree as follows.

2. **Eleventh Amendment to Agreement.** The Professional Services Agreement is hereby amended as follows:
  - 2.1. The scope of services (Attachment A to the Agreement for Professional Services between TRLIA and AECOM Technical Services, Inc.) is amended by the addition of effort to the original tasks as described in Exhibits A and B attached to this amendment agreement.
  - 2.2. The payment, budget, and not-to-exceed amounts, Condition B.1 in Attachment B to the Agreement for Professional Services between TRLIA and AECOM Technical Services, Inc. are amended to include the additional amount of \$9,000 for work described in Exhibit A and \$121,344 for work described in Exhibit B for a total contract amount of \$1,638,685.
3. **No Effect on Other Provisions.** Except for the amendments in Section 2, the remaining provisions of the Professional Services Agreement shall be unaffected and remain in full force and effect.

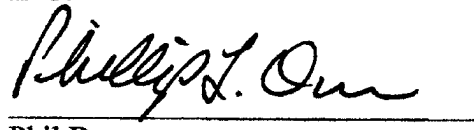
IN WITNESS WHEREOF, the parties hereto have executed this Agreement on  
NOV 17, 2015.

THREE RIVERS LEVEE  
IMPROVEMENT AUTHORITY



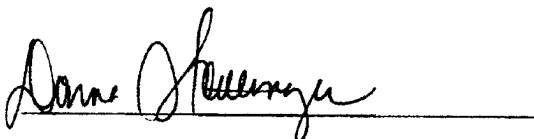
Paul G. Brunner  
Executive Director

AECOM TECHNICAL SERVICES,  
INC.



Phil Dunn  
Vice President

ATTEST:  
DONNA STOTTEMEYER  
CLERK OF THE BOARD OF DIRECTORS



APPROVED AS TO FORM:  
GENERAL COUNSEL



**EXHIBIT A**  
**AMENDED SCOPE OF SERVICES**  
**FOR AECOM TO PERFORM**  
**ENVIRONMENTAL SERVICES FOR THE**  
**GOLDFIELDS 100-YEAR INTERIM PROJECT**  
**NOVEMBER 5, 2015**

TRLIA is preparing to begin construction on the goldfields 100-Year Interim Project. The CEQA Mitigation Plan included several tasks to ensure reduction of environmental impacts to a less than significant level. Work to be completed in the coming weeks to satisfy CEQA mitigation measures will include:

- Preparing worker awareness training program materials and conducting training (MM 3.4-1a)
- Conducting pre-construction surveys for western pond turtles (MM3.4-1g)
- Flagging elderberry shrubs for avoidance and monitoring installation of protective fencing (VELB protection component of project description and MM 3.4-2)
- Identifying riparian vegetation for minimization of impact and identifying riparian vegetation that cannot be avoided
- Preparing memorandum documenting implementation of above tasks

**EXHIBIT B**

**AMENDED SCOPE OF SERVICES  
FOR AECOM TO PERFORM  
ADDITIONAL ENVIRONMENTAL SERVICES FOR THE  
WPIC 200-YEAR STANDARD PROJECT  
NOVEMBER 6, 2015**

**I. INTRODUCTION**

This amended scope of services identifies additional work required to complete Tasks 1, 2, 6, and 7 described in the September 9, 2014 and/or February 25, 2015 scopes of services for the Three Rivers Levee Improvement Authority (TRLIA) Western Pacific Interceptor Canal 200-Year Standard Project. Since the previous scopes of services were developed, additional work has become required to fulfill environmental compliance for the project: 1) extensive consultation with Native American Tribes to respond to concerns regarding potential impacts on cultural resources, revise mitigation measures, and develop and implement a cultural resources field investigation plan; 2) increasing frequency of biological construction monitoring to meet California Department of Fish and Wildlife (CDFW) permit requirements; and 3) evaluating environmental effects of changing the Reach 2B haul route and conducting necessary revisions and augmentation of environmental and permitting documents. Work associated with the Reach 2B haul route is included as a new task in this scope of services (Task 8). The costs associated with this scope of services also include fees for the Notice of Determination, CDFW Streambed Alteration Agreement, and Water Quality Certification that were previously anticipated to be paid directly by TRLIA.

AECOM assumes consultation with Native American Tribes will be led by GEI cultural resources specialist Barry Scott. Mr. Scott's effort through November 28, 2015 was included in Amendment 10; if Tribal consultation services are needed past November, TRLIA may choose to contract directly with GEI for Mr. Scott's services.

**II. SCOPE OF SERVICES**

The following scope of services includes augmentation of Tasks 1, 2, 6, and 7 described in the September 9, 2014 and/or February 25, 2015 scopes of services and the addition of Task 8. There is no change to Tasks 3, 4, or 5.

**TASK 1: PREPARE IS/MND**

**Subtask 1.3 Prepare Response to Comments.** The United Auburn Indian Community (UAIC) has provided extensive comments on the Initial Study and proposed Mitigated Negative Declaration (IS/MND). AECOM cultural resources specialists attended a site visit with UAIC and TRLIA, and AECOM staff have worked with TRLIA to draft responses to UAIC comments. AECOM staff will work with GEI's cultural resources specialist and TRLIA to complete the comment response. Extensive coordination with GEI, TRLIA, and UAIC also is required to revise cultural resources mitigation measures and associated CEQA documentation. Efforts necessary to respond to UAIC comments and revise mitigation measures require previously unanticipated meetings, conference calls, and document revisions.

**TASK 2: PREPARE CULTURAL RESOURCES REPORT**

**Subtask 2.5 Conduct Geoarchaeological Study and Field Investigation.** AECOM and GEI cultural resources staff will conduct a desk-top geoarchaeological pre-field study and additional archaeological field investigation. An AECOM geoarchaeologist will conduct the geoarchaeological study, which will include review of relevant background information, such as geotechnical reports, geological and soil maps, levee construction plans, and previous archaeological/cultural studies, to assess the archaeological sensitivity and relative potential for buried archaeological deposits to occur in different parts of the project area. A report describing methods and results of the geoarchaeological study will be prepared and used to develop a work plan for the subsequent field investigation. The geoarchaeological findings also will be useful in determining areas where the most intensive monitoring should be conducted during construction.

Field investigation is anticipated to include archaeological mechanical trenching with an excavator or backhoe. Up to nine trenches approximately 3 feet wide, 10 feet long, and 10 to 15 feet deep will be excavated in 6-inch increments. An AECOM geoarchaeologist will be present to produce a profile of excavated strata. Two additional archaeologists will be present to assist the geoarchaeologist and to screen approximately 20 gallons of excavated matrix through ¼-inch steel mesh screen per 6-inch excavated increment; the matrix will be screened to identify any cultural material that may not be readily evident in trench sidewalls or spoils piles. All resources, including archaeological sites, cultural landscapes, and cultural resources with significance to Native American communities will be documented in accordance with state and federal guidance; recordation of historic structures, buildings, objects, and sites will be accomplished using California Department of Parks and Recreation 523 Site Record forms. A biologist also will be present onsite during the investigation to ensure impacts on all wetland habitats are avoided and to implement giant garter snake impact avoidance measures. AECOM assumes the field investigation will be completed in 3 days and that up to two paid Native American monitors will be present during trenching activities. This scope of work does not include remote sensing, such as resistivity/induced polarization and ground penetrating radar. AECOM assumes one of the field archaeologists will be provided by GEI; this scope of services does not include time and expenses for the GEI archaeologist.

Native American Tribes will be notified of the additional investigation work, and UAIC will be invited to comment on results of the geoarchaeological study and the field investigation work plan and to monitor trenching activities. Following completion of the field investigation, UAIC will be invited to meet with AECOM and GEI cultural resources specialists to discuss the views of the Tribes on resource descriptions and significance. The cultural resources specialists will then prepare a report describing methods and results of the field investigation. Consultation with UAIC and other interested Native American Tribes regarding findings of the investigation also will be described in the report. AECOM assumes consultation with the Tribes will be led by Mr. Scott, whose services are not covered in this scope of services.

AECOM will prepare an administrative draft geoarchaeological study report and field investigation work plan before conducting trenching activities and an Administrative Draft Cultural Resources Investigation Report following trenching activities. Each report will first be reviewed by TRLIA and revised based on comments received from TRLIA. Draft reports will then be reviewed by UAIC, and additional revisions by AECOM and review by TRLIA and UAIC will be conducted, as needed. AECOM assumes up to five rounds of review by TRLIA and/or the interested tribes will be required. AECOM will provide an electronic version of each report version and will make revisions in response to comments sent to AECOM in one electronic file by each group of reviewers.

#### **TASK 6: MANAGE ENVIRONMENTAL TASKS**

The September 9, 2014 and February 25, 2015 scopes of services included project management costs through November 2016 for the previously described tasks. With the addition of services described in this

amendment, time is required for associated management activities, including financial administration, coordinating with the subcontractor, internal meetings, and maintaining close communication with TRLIA and its legal and engineering consultants.

#### **TASK 7: CONDUCT CONSTRUCTION-RELATED BIOLOGICAL SERVICES**

**Subtask 7.1 Conduct Construction Monitoring.** Based on terms and conditions of the draft CDFW Streambed Alteration Agreement and Incidental Take Permit (ITP), biological monitoring requirements will be more extensive than was assumed in the February 25, 2015 scope of services. AECOM biologists will be present onsite full time during all initial project site disturbance, including installing fencing and other environmental protections, clearing and grubbing vegetation, stripping topsoil, and any other initial ground-disturbing activities. AECOM assumes full-time monitoring will be required on up to 30 13-hour work days. Because construction is scheduled to occur from 7:00 am to 8:00 p.m., two monitoring shifts will be required on these days. Up to 35 biological monitoring visits will be required over the remaining 5 months of construction to comply with conditions of the CDFW ITP.

#### **TASK 8: EVALUATE REACH 2B SOUTHERN HAUL ROUTE**

Access to Reach 2B was originally intended to occur from the north, along an existing gravel/paved route extending south from Algodon Road. In response to concern about damage that could result from haul trucks traveling along the paved portion of this route, the project description was changed to indicate access to Reach 2B will occur along an unimproved route from the south.

**Subtask 8.1 Conduct Field Surveys.** An AECOM biologist has conducted a field survey to evaluate potential for wetlands and other sensitive biological resources to be affected by using the proposed southern route. In addition, AECOM cultural resources specialists will conduct a pedestrian survey of the proposed route to evaluate expansion of the Area of Potential Effects (APE). Interested Native American Tribes will be notified of the survey and may accompany AECOM cultural resources specialists on the survey, if requested. AECOM assumes that the existing records search is adequate to account for the expanded APE, and no additional records search will be necessary. AECOM also assumes the pedestrian survey can be completed in 2 days, and that up to two paid Native American monitors will participate in the survey.

**Subtask 8.2 Prepare Amendment to Cultural Resources Report.** AECOM will prepare an amendment to the Cultural Resources Technical Report completed by AECOM in April 2015 to address expansion of the APE and make a finding of effect for the Reach 2B southern haul route. The report will describe methods and results of the pedestrian survey and will provide a finding of effect to identify whether the new haul route would result in significant impacts on cultural resources. AECOM assumes that no cultural resources beyond those identified during preparation of the April 2015 report will be identified. AECOM will provide an electronic version of the draft cultural resources report amendment to TRLIA for review, will incorporate comments sent to AECOM in one electronic file, and will submit an electronic copy of the final Cultural Resources Report to TRLIA. An electronic copy and hard copy of the amendment also will be submitted to USACE, as necessary.

**Subtask 8.3 Assess Biological Impacts and Prepare Agency Submittals.** AECOM biologists coordinated with HDR project engineers to refine the proposed haul route alignment to minimize potential for additional impacts on wetlands and endangered species habitat. Biologists also prepared submittals for CDFW and USFWS to address potential for the route to affect valley elderberry longhorn beetle, vernal pool invertebrates, and giant garter snake, and coordinated with agency staff and HDR engineers to identify feasible impact avoidance and minimization measures.

**Subtask 8.4 Prepare CEQA Addendum and NEPA Compliance.** The IS/MND that was circulated for public review in July 2015 included the previously proposed northern haul route to Reach 2B. Therefore, potential impacts associated with the southern route were not evaluated in the IS/MND. An addendum to the existing IS/MND will be prepared. AECOM will provide an electronic version of the draft Addendum to TRLIA for review, will incorporate comments sent to AECOM in one electronic file, and will submit an electronic copy of the final Addendum to TRLIA.

### III. SCHEDULE

Every effort will be made to complete this scope of services by November 30, 2016. However, timing of construction monitoring is dependent on the construction schedule, which is beyond AECOM's control.

### IV. COST ESTIMATE

AECOM will complete the above tasks on a time-and-materials basis for a maximum not-to-exceed cost of \$121,344, with costs by task specified below. The cost estimate is based on completion of work by November 30, 2016.

TASK 1: PREPARE EA/IS/MND: \$14,938

TASK 2: PREPARE CULTURAL RESOURCES REPORT: \$26,262

TASK 6: MANAGE ENVIRONMENTAL TASKS: \$9,478

TASK 7: CONDUCT CONSTRUCTION-RELATED BIOLOGICAL SERVICES: \$11,564

TASK 8: EVALUATE REACH 2B SOUTHERN HAUL ROUTE \$32,295

TASK 1 - 8 EXPENSES: \$26,807

TOTAL COST: \$121,344