CALL TO ORDER: Welcome to the Three Rivers Levee Improvement Authority (TRLIA) meeting. As a courtesy to others, please turn off cell phones, pagers, or other electronic devices which might disrupt the meeting. Thank you.

I  ROLL CALL – Directors Atwal, Brown, Griego, Nicoletti, Ritchie

II  PUBLIC COMMUNICATIONS: Any person may speak about any subject of concern within the jurisdiction of TRLIA which is not on today’s agenda. The total amount of time allotted shall be limited to a total of 15 minutes and each individual or group will be limited to no more than 5 minutes. Prior to this time, speakers are requested to fill out a “Request to Speak” card and submit it to the secretary.

III  CONSENT AGENDA: Matters listed are considered to be routine and can be enacted by one motion.
   A. Approve minutes of the meeting of June 7, 2016.

IV  ACTION ITEMS
   A. Discuss and consider options regarding Star Bend entrance to Feather River Setback area and take action as appropriate. (No background material)
   B. Adopt resolution updating and ordering levy of assessments within Levee and Flood Control Facilities Assessment District for Fiscal Year 2016-2017.
   C. Receive and approve proposed RD 784/TRLIA Budget for Fiscal Year 2016-2017 for maintenance of levees improved by TRLIA.
   D. Accept Proposed Budget for Fiscal Year 2016-2017 Fiscal Year; direct copies be made available for public inspection; and set Final Budget Hearing for Tuesday, July 19, 2016 at 2:30 p.m.
   E. Approve Amendment No. 19 with GEI in the amount $149,902 for biological monitoring for the Western Pacific Interceptor Canal 200-year Standard Project, and authorize Executive Director to execute upon review and approval of Counsel.

V  BOARD AND STAFF MEMBER REPORTS

VI  ADJOURN

The complete agenda is available at the Yuba County Government Center, 915 8th Street, Suite 109 Marysville, and www.trlia.org. Any disclosable public record related to an open session item on the agenda and distributed to all or a majority of the Board less than 72 hours prior to the meeting is available at Suite 109 during normal business hours. In compliance with the Americans with Disabilities Act, the meeting room is wheelchair accessible and disabled parking is available. If you have a disability and need disability-related modifications or accommodations to participate in this meeting, please contact the Clerk of the Board's office at (530) 749-7510 or (530) 749-7353 (fax). Requests must be made one full business day before the start of the meeting.
THREE RIVERS LEVEE IMPROVEMENT AUTHORITY

JUNE 14, 2016

MINUTES

A meeting of the Board of Directors of the Three Rivers Levee Improvement Authority (TRLIA) was held on the above date, commencing at 3:33 p.m., within the Government Center, Marysville, California, with a quorum being present as follows: Directors Sarbdeep Atwal, Rick Brown, Mary Jane Griego, and Edward Ritchie. Director John Nicoletti was absent. Also present were Executive Director Paul Brunner, Counsel Andrea Clark, and Secretary/Clerk of the Board of Supervisors Donna Stottlemeyer. Chair Griego presided.


II PUBLIC COMMUNICATIONS: None.

III CONSENT AGENDA: Matters listed are considered to be routine and can be enacted by one motion.

MOTION: Move to approve MOVED: Rick Brown SECOND: Sarbdeep Atwal
AYES: Sarbdeep Atwal, Rick Brown, Mary Jane Griego, Edward Ritchie
NOES: None ABSTAIN: None ABSENT: John Nicoletti

A. Approve minutes of the meeting of May 3, 2016. Approved.

IV ACTION ITEMS

A. Award contract to Nordic Industries, Inc. low responsible bidder, in the amount of $7,228,240 for 200-year Western Pacific Interceptor Canal West Levee Improvement Project and authorize Executive Director to execute contract and Notices to Proceed upon review and approval of Counsel. Construction Manager Doug Handen and Executive Director Paul Brunner recapped bids received, project, and responded to Board inquiries.

MOTION: Move to approve MOVED: Sarbdeep Atwal SECOND: Edward Ritchie
AYES: Sarbdeep Atwal, Rick Brown, Mary Jane Griego, Edward Ritchie
NOES: None ABSTAIN: None ABSENT: John Nicoletti

B. Approve Adequate Progress Finding towards Urban Level of Flood Protection for Reclamation District 784 Urban Levee System and authorize Executive Director to transmit finding report to Yuba County upon review and approval of Counsel. (Letter and findings on file in Yuba County Board of Supervisors office) Program Manager Ric Reinhardt recapped findings and responded to Board inquiries.

MOTION: Move to approve MOVED: Edward Ritchie SECOND: Rick Brown
AYES: Sarbdeep Atwal, Rick Brown, Mary Jane Griego, Edward Ritchie
NOES: None ABSTAIN: None ABSENT: John Nicoletti

C. Approve Amendment No. 5 to the agreement with Engeo, Inc., in the amount of $75,000, for engineering services for Yuba Goldfields projects and authorize Executive Director to execute upon review and approval of Counsel. Executive Director Paul Brunner recapped services, terms of agreement, and responded to Board inquires. Executive Director Paul Brunner recapped services and responded to inquiries.
D. Approve Amendment No. 2 to the agreement with Harold W. Bertholf, Inc., in the amount of $50,000, for appraisal services for Goldfields UFRR Project and authorize Executive Director to execute upon review and approval of Counsel. Executive Director Paul Brunner recapped services and responded to inquiries.

MOTION: Move to approve
MOVED: Edward Ritchie
SECOND: Rick Brown
AYES: Sarbdeep Atwal, Rick Brown, Mary Jane Griego, Edward Ritchie
NOES: None
ABSTAIN: None
ABSENT: John Nicoletti

V BOARD AND STAFF MEMBER REPORTS

Executive Director Paul Brunner recapped closing public access to Feather River Setback at Star Bend Gate due to dust issue.

The following individuals spoke:
- Rick
- Mark Miller
- Andrew Shore
- Gary Burdick
- Lawrence Day
- Sherri Knox

Executive Director Paul Brunner: Joint representation by Downey Brand regarding interest of TRLIA and Sutter Butte Flood Control Agency

VI ADJOURN: 4:59 p.m.

__________________________________________
Chair

ATTEST: DONNA STOTTERMAYER
CLERK OF THE BOARD OF SUPERVISORS
AND SECRETARY OF THE PUBLIC AUTHORITY

__________________________________________
Approved:
June 21, 2016

TO: Three Rivers Levee Improvement Authority Board
FROM: Paul Brunner, Executive Director
Andrea Clark, General Counsel
Chris Coulter, Assessment Engineer (SCI Consulting)

SUBJECT: UPDATING AND ORDERING LEVY OF ASSESSMENTS WITHIN THE LEVEE AND FLOOD CONTROL FACILITIES ASSESSMENT DISTRICT FOR FISCAL YEAR 2016-2017

Recommendation:

That the Board of Directors consider and adopt the resolution that is attached entitled:

RESOLUTION NO._____


Background: On June 2, 2009 the TRLIA Board adopted a resolution to form the Benefit Assessment District (District) to pay for long-term maintenance and operations on approximately 29 miles of improved levees.

On June 15, 2010 the Three Rivers Levee Improvement District Board of Directors found that to meet the budgeting requirements for operation and maintenance of the flood control facilities for fiscal year 2010-11 there was a need to adjust the assessment to match the full 2009 CPI change of 2.613%. However, in light of severe economic impacts within the District, the Board decided it would not be appropriate to make a CPI adjustment at this time. The 2.613% was reserved by the Board to use at its discretion to adjust the maximum CPI increase for the next fiscal year (2011-12) as explained in the Engineer's Report (p. 37) and Section 10 of Resolution No. 2009-08. In 2011 (1.52%), 2012 (2.93%), 2013 (2.220%), 2014 (2.570%), and 2015 (2.670%) the TRLIA Board approved the CPI for that year, but made the same determination and reserved the 2009 CPI (2.613%) by the Board to use at its discretion to adjust the maximum CPI increase for the next fiscal year.
The projected revenues for FY 2015-16 were $975,983.49. As of May 31, 2016 the TRLIA revenues in FY15-16 are $942,275.89. It is anticipated that TRLIA will be near the projected amount.

**Discussion:** The CPI for the San Francisco Bay Area for December 2014 to December 2015 is 3.170%. The CPI for 2014-15 was 2.67%, which was approved and applied.

At the June 14, 2016 TRLIA Board meeting the TRLIA Board reviewed and accepted the RD784 FY2016/17 budget for maintenance of levees improved by TRLIA. The proposed RD784 FY 2016/17 budget anticipates $886,654 from TRLIA’s assessment district.

Attached for the TRLIA Board to consider is a resolution incorporates the 2015 CPI increase of 3.170%, and defers again the 2009 CPI increase of 2.613%, which is projected to provide $1,012,351.15.

Below is a summary of Rates by Zone, if the proposed resolution is adopted. Attached is a map showing the zones.

<table>
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<tr>
<th>Zone</th>
<th>Current Rate ($)</th>
<th>Proposed Rate ($)</th>
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<tbody>
<tr>
<td>South</td>
<td>166.52</td>
<td>171.80</td>
</tr>
<tr>
<td>Central A</td>
<td>12.75</td>
<td>13.14</td>
</tr>
<tr>
<td>Central B</td>
<td>36.16</td>
<td>37.32</td>
</tr>
<tr>
<td>East</td>
<td>12.62</td>
<td>13.02</td>
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**Fiscal Impact**
A CPI increase of 3.170% for FY2016/17 seems to be viable, which would provide additional funds for RD784 and TRLIA to create a reserve for future emergencies or new flood prevention requirements. Revenues above the RD784 FY15/16 approved budget of $886,654 will be reserved for TRLIA use (e.g. administrative costs, and technical support to RD784), and RD784/TRLIA emergency repairs as needed during FY 2016/2017.

RD784 and TRLIA staff recommend adoption of the resolution, which incorporates the 2015 CPI increase of 3.170% into the FY 2016/17 assessment and defer again the 2009 CPI increase of 2.613%.

2. **Attachments:**
   1. Proposed Resolution with 2015 3.170% CPI increase for 2016/17
   2. Assessment District Zone Graphic
THREE RIVERS LEVEE IMPROVEMENT AUTHORITY

RESOLUTION NO. 2016-___

A RESOLUTION OF THE BOARD OF DIRECTORS OF
THE THREE RIVERS LEVEE IMPROVEMENT AUTHORITY
UPDATING AND ORDERING LEVY OF ASSESSMENTS WITHIN THE LEVEE AND FLOOD CONTROL
FACILITIES ASSESSMENT DISTRICT FOR FISCAL YEAR 2016-2017

WHEREAS, the Three Rivers Levee Improvement Authority ("Three Rivers") has installed and
otherwise made substantial improvements to the flood control facilities along portions of the Feather and
Yuba Rivers within Yuba County;

WHEREAS, Three Rivers formed an assessment district — the Three Rivers Levee Improvement
Authority Flood Control Facilities Assessment District (the "District") — in June 2009 to fund operation and
maintenance of the improved facilities;

WHEREAS, the legal notices that were mailed to property owners in the District in March 2009 and
the Three Rivers Levee and Flood Control Facilities Engineer's Report dated May 28, 2009 state that the
assessment is subject to an annual adjustment based on the US Department of Labor Consumer Price
Index (CPI-U) for the San Francisco Bay Area with the maximum annual adjustment not to exceed 4%;

WHEREAS, the Three Rivers Board of Directors found on June 17, 2014 that to meet the budgeting
requirements for operation and maintenance of the flood control facilities for fiscal year 2014-15 there was
a need to adjust the assessment to match the full 2013 CPI change of 2.57% plus the unused CPI of
2.613%. However, in light of severe economic impacts within the District, the Board decided it would not be
appropriate to make that full CPI adjustment at that time. Thus, the Board decided to impose an increase of
only the current 2013 CPI of 2.57% and reserved the right to later make that 2.613% adjustment as
explained in the Engineer's Report (p. 37) and Section 10 of Resolution No. 2009-08;

WHEREAS, the US Department of Labor Consumer Price Index (CPI-U) for the San Francisco Bay
Area December to December change for 2015 was 3.17%;

WHEREAS, the Three Rivers Board of Directors is now to consider whether to meet the budgeting
requirements for operation and maintenance of the flood control facilities for fiscal year 2016-17 there is a
need to adjust the assessment consistent with the CPI-U. The Board again notes severe economic
impacts which the Board desires to consider;

WHEREAS, Reclamation District No. 784 has submitted, and the Three Rivers Board of Directors
has reviewed, a proposed annual budget for operation and maintenance of the improved levees for fiscal
year 2016-17,

NOW, THEREFORE, BE IT RESOLVED THAT:

1: The above recitals are true and correct.
2. The Three Rivers Board of Directors finds that to meet the budgeting requirements for operation and maintenance of the flood control facilities for fiscal year 2016-17 there is a need to adjust the assessment to match the full 2015 CPI change of 3.17%. The Board acknowledges the severe economic impacts within the District but believes that the increased funds are necessary to secure flood protection and is therefore imposing a 3.17% increase. The Board will continue to reserve the unused 2.613% increase from 2009 and the Board in its discretion may use it to adjust the maximum CPI increase for future fiscal years as explained in the Engineer's Report (p. 37) and Section 10 of Resolution No. 2009-08.

3. Therefore, the assessments for fiscal year 2016-17 shall be levied at the rate of one hundred seventy one dollars and eighty cents ($171.80) per single-family equivalent benefit unit for the South Zone, thirteen dollars and fourteen cents ($13.14) for the Central A Zone, thirty seven dollars and thirty two cents ($37.32) for the Central B Zone, and thirteen dollars and two cents ($13.02) for the East Zone.

4. Three Rivers staff is directed to file or cause to be filed a certified copy of this Resolution with the Auditor/Controller of Yuba County (the "County Auditor/Controller"). Upon such filing, the County Auditor/Controller shall enter on the County tax roll opposite each lot or parcel of land in the District the amount of assessment thereupon as shown in the Engineer's Report and described in Section 3 of this Resolution. The benefit assessment shall be collected at the same time and in the same manner as County ad valorem taxes are collected and all laws providing for the collection and enforcement of County ad valorem taxes shall apply to the collection and enforcement of the assessments. After collection by the County Tax Collector, the net amount of the assessments, after deduction of any compensation due the County for collection, shall be paid to Three Rivers for the purposes of the District.

PASS AND ADOPTED at a regular meeting of the Board of Directors of the Three Rivers Levee Improvement Authority duly held on the 21st day of June, 2016.

AYES:
NOES:
ABSENT:
ABSTAIN:

CHAIR

APPROVED AS TO FORM: ATTEST:

Counsel Scott Shapiro

Donna Stottlemeyer, Secretary
TO: Three Rivers Levee Improvement Authority Board  
FROM: Paul Brunner, Executive Director  
Seth Wurzel, Financial Consultant  
SUBJECT: Proposed Budget for Fiscal Year 2016/17

**Recommended Action:**

1. Accept the Executive Director’s Proposed Budget for Fiscal Year 2016/17  
2. Direct TRLIA Executive Director to make copies of the Proposed Budget available for inspection by the public  
3. Direct Budget Hearing to be scheduled to begin on Tuesday, July 19 starting at 2:30 pm.

**Discussion:**

TRLIA continues to follow the same requirements for budget adoption as prescribed by the Yuba County Ordinance Code and state law. State law also requires the Board to notify the public when budget hearings will begin and to provide copies of the Proposed Budget for inspection by the Public.

Attached is the Proposed Fiscal Year 2016/17 TRLIA budget for your consideration. Some of the key points of this budget are:

- As part of the ongoing work in the Goldfields, TRLIA will undertake the following work:
  - Implement key actions needed within the Goldfields to obtain the needed Addendum to TRLIA’s FEMA 100-yr certification.
    - Finalize mining operators Co-operative agreements
    - Construct interim 100-yr flood protection project
  - Finalize the work of the Feasibility Analysis to achieve 200-yr compliance.
  - Finalize the 200-yr flood protection project CEQA document, and the TRLIA Board selects the preferred alternative.
Finalize and sign the UFRR funding agreement for the 200-yr new levee project.

Begin discussions with the state on adding the 200-yr Goldfields project into the SPFC.

- Implement and complete the projects to improve the 2.1 miles of levees (WPIC and 86’ Break locations) that do not meet the ULDC standards.

- Continue to work on the Bank Enabling Instrument, design, CEQA/NEPA documents, and permit process for the Flood Safe Environmental Stewardship and Statewide Resources Office (FESSRO) $4.4 million (500-Ac) Feather River Setback Area Advance Mitigation Habitat project.

Tremendous success continues to be achieved by the TRLIA team. I anticipate similar success to be achieved with the proposed FY 2016/17 budget, which remains fully funded.

**Fiscal Impact:**
Proposed expenses for FY 2016/17 total approximately of $18.1 million. Total anticipated revenues available for FY 2016/17 are approximately of $18.0 million. Revenues are from State Prop 13, State Prop 1E (Feather and UYLIP) funding agreements, FESSRO Agreement, and a new proposed Prop 1E funding source through the Urban Flood Risk Reduction Program as well as funding provided by Yuba Levee Financing Authority (YLFA) remaining bond proceeds. The balance forward from FY 2015/16 to FY 2016/17 is anticipated to be approximately $650,000. The FY 2016/17 budget is anticipated to be fully funded.

The proposed budget also provide a one year look ahead to FY 2017/18. The expenditures anticipated for FY 2017/18 are estimated to be approximately $7.4 million. Total anticipated revenues available for FY 2017/18 are projected to be $13.3 million. The balance forward from FY 2016/17 to FY 2017/18 is anticipated to be approximately $550,000. The FY 2017/18 budget is anticipated to be fully funded.

Attachment:
TRLIA FY 2016/17 Proposed Budget
THREE RIVERS LEVEE IMPROVEMENT AUTHORITY

Fiscal Year 2016/17 Proposed Budget

Paul G. Brunner, P.E.
Executive Director

June 21, 2016
Three Rivers Levee Improvement Authority  
TRLIA FY 2016/2017 Budget  
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June 21, 2016

To: Three Rivers Levee Improvement Authority Board
From: Paul G. Brunner, Executive Director
Re: Proposed Budget for Fiscal Year 2016/17

The TRLIA team continues to work diligently to move forward to achieve 200-Year flood protection and complete the levee improvement program for South Yuba County. Continued progress was achieved by the TRLIA team with the revenues that were provided by the State and Local Agencies that were approved in last year’s TRLIA budget.

I anticipate similar success to be achieved with the proposed expenses that are outlined in this year’s TRLIA FY 2016/17 budget, which remains fully funded.

Described in this budget is an ambitious State and Local capital improvement program specifically aimed to enhance flood protection for residents that reside in south Yuba County.

Thank you for the opportunity to submit this budget.

Sincerely,

[Signature]

Paul G. Brunner, P.E.
Executive Director
**TRLIA Phased Program**
The current cost of TRLIA's Levee Improvement Program is nearly $480 million. This is the same number as last year's budget. There are four phases to this capital improvement program which are described in detail below (see figures 1, and 2).

**RD784**
- Non TRLIA Levees (black): WPIC, and Bear River

**TRLIA & RD784 Levees**
- Phase 1 (red): Yuba River
- Phase 2 (green): Yuba River, Western Pacific Interceptor Canal (WPIC), and Bear River
- Phase 3 (purple): Bear River Setback
- Phase 4 (blue): Yuba River, and Feather River

The Yuba Goldfields has been added to Phase 4. This work is not part of RD784. See graphic below.

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Figure 1

**Legend**
- Yuba River Levee System
- Yuba Goldfields
- Highway
- Railroad
- County Boundary

Figure 2 - Goldfields Area
The most critical flood control projects were prioritized and done first in order to rapidly reduce the risk of flooding to residents as quickly as possible. TRLIA’s goal is to have all the levee improvements designed and constructed to withstand flows from both 100-year (FEMA criteria) and 200-year (new DWR Urban Levee Design Criteria (ULDC)) Storms. The RD784 Urban levee system that was improved by TRLIA has received FEMA 100-yr Accreditation. Most of the RD784 levee system that was improved by TRLIA meets the new 200-yr ULDC criteria; except for three limited areas identified below in the following breakdown and status of each Phase:

- **Phase 1** – Strengthened the existing Yuba River left (south) levee between Highway 70 and approximate Yuba River Project Levee Mile (PLM) 0.8. The work was funded by local funding. This work was completed in 2004 and received certification for FEMA from the Corps on May 8, 2007. TRLIA updated the 100-year certification for FEMA on May 5, 2010. FEMA notified TRLIA that the levee system will be accredited on May 27, 2010. In 2013 the state Urban Levee Evaluation Team determined that the section needed some additional work to meet the new state 200-yr Urban Levee Design Criteria. This additional 200-yr ULDC work was added to Phase 4 and the UYLIP EIP funding agreement and was completed in 2015. See Figure 4 for location.

- **Phase 2** - Strengthened and raised the existing upper Bear River right (north) levee from about 200 feet downstream from Highway 70 to the WPIC right (west) levee, added a seepage berm to the existing Yuba River left (south) bank levee from the Western Pacific Railroad (WP RR) to Highway 70 and from Highway 70 to the Southern Pacific Railroad (SP RR), strengthened and raised the existing WPIC levees, relocated Pump Station No. 6, and constructed the Olivehurst detention basin and ring levee. The work was funded by Prop 13 and local funding and then, in 2010, the State reimbursed TRLIA a portion of the local share with Prop 1E funds under the Upper Yuba EIP funding agreement. The Olivehurst detention basin was funded with FEMA and local funds. This work was completed in 2006 and received certification for FEMA from the Corps on May 8, 2007. TRLIA updated the 100-year certification for FEMA on May 5, 2010. FEMA notified TRLIA that the levee system will be accredited on May 27, 2010. In 2013 the state Urban Levee Evaluation Team and TRLIA concluded that portions of this levee section on the Western Pacific Interceptor Canal (WPIC) needed additional improvement to meet the new state 200-yr Urban Levee Design Criteria. This additional 200-yr ULDC work was added to Phase 4 and the UYLIP EIP funding agreement and is anticipated to be accomplished in 2016. See Figure 4 for location.

- **Phase 3** – Constructed the Bear River setback levee from the Feather River levee near Pump Station No. 2 to the west end of the Phase 2 Bear River levee work. This phase is referred to as the Bear River Setback Levee project (BRSL). Levee work was completed in 2006. A 600 acre Environmental Restoration Area was created as part of this project. TRLIA is the property owner of the 600 acres and is in the process of transferring ownership to the State. Maintenance of the Environmental Restoration area is ongoing. The work was funded by Prop 13 and local funding and then in 2010 the State reimbursed TRLIA a portion of the local share with Prop 1E funds under the Upper Yuba EIP funding agreement. Corps certification for FEMA was received on May 8, 2007. TRLIA updated the 100-year certification for FEMA on May 5, 2010. FEMA notified TRLIA that the levee system will be
accredited on May 27, 2010. In 2013 the state Urban Levee Evaluation Team and TRLIA concluded that this levee section met the new state 200-yr Urban Levee Design Criteria.

- **Phase 4** – consists of multiple projects on the Feather River, Yuba River, and Goldfields:
  - **Phase 4 Feather** – This work is referred to as the Phase 4 Feather River Levee Repair Project (FRLRP) and consists of three segments as described below:
    - **Segment 1**: Below Star Bend, from the Bear River setback levee (PLM 13.3) to PLM 17.1 - Embankment and foundation seepage mitigation consisting of cutoff walls, stability berms, relief wells, and monitoring wells. This work was completed in 2009 and was funded initially by local funding and then in March, 2010 the State approved reimbursing TRLIA for their share of the work with Prop 1E funds under a modified Feather EIP funding agreement. TRLIA completed 100-year certification for FEMA on May 5, 2010. FEMA notified TRLIA that the levee system will be accredited on May 27, 2010. In 2013 the state Urban Levee Evaluation Team and TRLIA concluded that a small portion of this levee section needed additional improvement to meet the new state 200-yr Urban Levee Design Criteria. See figure 3 for location. This 200-yr improvement was completed with local funds in 2014.
    - **Segment 2**: The levee is set back from Star Bend (FR PLM 17.1) to about one mile north of Murphy Road (FR PLM 23.6) – A new levee embankment and foundation seepage mitigation was constructed consisting of cutoff walls, stability berms, relief wells, and monitoring wells. The work included degrading the existing Segment 2 levee and the purchase/creation of an expanded 1600 acre floodway along the Feather River. TRLIA is the property owner of the 1600 acres and is in the process of transferring ownership to the State. The new Setback levee replaced the portion of levee that broke in 1997. Construction of the Setback levee began in 2008 and was completed in 2009. Degrade of the existing Segment 2 levee was completed in 2010. Maintenance of the 1600 area expanded floodway is ongoing. The work was funded by Prop 1E EIP and local funding. TRLIA completed 100-year certification for FEMA on May 5, 2010. FEMA notified TRLIA that the levee system will be accredited on May 27, 2010. In 2013 the state Urban Levee Evaluation Team and TRLIA concluded that this levee section met the new state 200-yr Urban Levee Design Criteria.
    - **Segment 3**: From Feather River PLM 23.6 to PLM 26.1 and from Yuba River PLM 0.0 to the WPRR crossing at about PLM 0.3 - Embankment and foundation seepage mitigation consisting of cutoff walls, stability berms and monitoring wells; and levee freeboard mitigation. This work was completed in 2009 and was funded by Prop 1E EIP and local funding. TRLIA completed 100-year certification for FEMA on May 5, 2010. FEMA notified TRLIA that the levee system will be accredited on May 27, 2010. In 2013 the state Urban Levee Evaluation Team and TRLIA concluded that this levee section met the
new state 200-yr Urban Levee Design Criteria. In 2013 TRLIA improved the landside levee access corridor under the Feather River EIP project.

- **Phase 4 Yuba** – The first portion of Phase 4 Yuba included placing a cut off wall, strengthening the existing Yuba River left bank levee above the UPRR crossing to Simpson Lane and adding a seepage berm adjacent to the UPRR crossing. This work was completed in 2006 and was funded initially by local funding and then in 2010 the State reimbursed TRLIA a portion of the local share with Prop 1E funds under the Upper Yuba EIP funding agreement. 100-year certification for FEMA from the Corps was received on May 8, 2007. TRLIA updated the 100-year certification for FEMA on May 5, 2010. FEMA notified TRLIA that the levee system will be accredited on May 27, 2010. In 2013 the state Urban Levee Evaluation Team and TRLIA concluded that this levee section met the new state 200-yr Urban Levee Design Criteria.

- **Phase 4 Yuba (Highway 70 to the UPRR)** – This work is referred to as the Phase 4 Upper Yuba River Levee Improvement Waterside Slope Flattening Project (Station 3+00 to 33+50) and was funded by Prop 1E EIP and local funding. This work was done to achieve 200-year flood protection. The work includes slope flattening, seepage remediation, correcting deficiencies in levee geometry, and erosion protection from Highway 70 upstream to the Yuba Goldfields. This work was completed in 2009. See figure 3 for location. TRLIA updated the 100-year certification for FEMA on May 5, 2010. FEMA notified TRLIA that the levee system will be accredited on May 27, 2010. In 2013 the state Urban Levee Evaluation Team and TRLIA concluded that this levee section met the new state 200-yr Urban Levee Design Criteria.

**Figure 3 – Upper Yuba River Levee Improvement Project**
○ **Phase 4 Yuba (Simpson Lane up to the Goldfields west boundary)** – This work is referred to as the Phase 4 Upper Yuba River Levee Improvement Remaining Work Project and was funded by Prop 1E EIP and local funding. The work included slope flattening, seepage remediation, correcting deficiencies in levee geometry, and erosion protection (see figure 3). This work was completed in 2012. In late 2010 the FEMA Provisionally Accredited Levee (PAL) status for this segment of Levee ended; however, FEMA was aware of the ongoing TRLIA levee improvement work and accepted the 2013 TRLIA certification for this segment of levee for inclusion into the current FEMA system wide levee Accreditation. In 2013 the state Urban Levee Evaluation Team and TRLIA concluded that this levee section met the new state 200-yr Urban Levee Design Criteria.

○ **Phase 4 Yuba (Landside Levee Improvement – Station 5+80 to 9+00)** - This work included reshaping of the landside levee slope, removal of encroaching trees and trailer park spaces, and the relocation of several trailer park residents. This work was completed in 2012 and was funded by Prop 1E and local funds.

○ **Phase 4 Yuba (new 200-yr WPIC and 86’ Break Area improvements)** – This additional 200-yr ULDC work was added to Phase 4 and the UYLIP EIP funding agreement and is anticipated to be accomplished in 2015 and 2016. See Figure 4 for locations. The Feather Segment 1 work was completed May 2015. The 86’ Break work is anticipated was completed in the fall of 2015. The WPIC work is anticipated to be completed in 2016.
- **Phase 4 Goldfields** – The Three Rivers Levee Improvement Authority (TRLIA) has been evaluating the increased flood risk from the Goldfields (See Figure 2 for location) since 2009. In 2010 TRLIA identified the potential of floods passing through the Yuba Goldfields which had been assumed to act as “High Ground” for the State Plan of Flood Control (SPFC). These flows would flank the SPFC and flood
the Reclamation District (RD) 784 Urban Area. TRLIA began a process to identify immediate actions necessary to provide for 100-year protection to continue current FEMA mapping for the RD 784 Service Area, and also 200-yr protection to satisfy SB5 requirements. This work is being accomplished in two phases. Phase 1 is 100-yr actions, and Phase 2 is 200-yr actions. Phase 1 actions are considered interim until the final 200-yr project can be completed.

- A Goldfields High Ground Work Feasibility Study has been funded by the Prop 13 Yuba Feather Flood Protection Program and local funds for both Phase 1, & 2. The Feasibility Study has identified a preferred plan for interim (10 to 15 years) 100-year protection, and is nearing completion of the 200-yr analysis.

- Phase 1: Interim 100-yr project.

✓ Feasibility recommended fix:

  - Two embankments designed to intercept and block potential breach flows from the Yuba River. These embankments would hold water long enough to allow flood peaks to pass and the blocked flows to return to the Yuba River or percolate into underlying groundwater aquifers. See Figure 5 for embankment locations. The crown of the embankments would be located 3 feet above the elevation of the 100-year water surface elevation in the Goldfields and include a 16 foot wide patrol road. Significant portions of this alignment already exceed the embankment geometry required for the 100-year embankment. Fill for areas that require additional material to achieve the 100-year embankment geometry would come either from the adjacent areas that exceed the required flood protection elevation of the 100-year embankment, or from portions of the surrounding embankment outside of the 100-year embankment geometry.
Three transect locations. Locations of ongoing bank erosion at critical locations along the Yuba River South Bank have been identified and transects established to monitor loss of embankment section. These transects will be resurveyed every 5 years or after major (10-Year) flood events to determine if the currently stable bank embankments have been reduced to an unstable geometry. Remedial actions such as erosion protection or embankment enlargement would take place if significant erosion had occurred.
TRLIA performing the interim O&M. Maintenance for the interim 100-year embankment is minimal and consists of vegetation control on the patrol road, maintenance of the patrol road, inspection of the constructed embankment, and occasional surveys of transects at the erosion sites. The Goldfields are not part of the RD784 District and are not eligible either TRLIA or RD784 Benefit Assessment revenues.

- Phase 1 100-yr design work is done and construction was completed except for CS21 in 2015/early 2016. CS21 is anticipated to be completed in 2016. The work was done within the Goldfields active mining area with Co-Operative Agreements with the mining companies. This work was done with local funding. Currently, state funding is not available since the Goldfields Area has not been incorporated into the state plan of flood prevention.

- Phase 2: 200-yr project

- In early 2016 the TRLIA Board selected Alternative 4 as the preferred solution.

**Figure 6 – 200-yr Goldfields Alternatives**

- TRLIA has submitted an Urban Flood Risk Reduction Program (UFRR) application to accomplish the $42 million levee south of the Goldfields (Alternative 4). The new levee would connect to the Upper Yuba Levee and extend approximately 2.5 miles east to high ground near Beale AFB. In May 2015 DWR indicated that it will support UFRR funding for the 200-year Goldfields new project levee (Alternative 4 in the Goldfields 200-year EIR), with the condition that prior to construction the new levee must be added to the State Plan of Flood Control (SPFC). The UFRR funding agreement is anticipated to be finalized in 2016.
✓ Phase 2 200-yr new levee design and land acquisition are expected to commence in 2016/17 once the UFRR funding agreement has been signed. Figure 7 shows the proposed cross section of the new levee. Construction cannot commence until the new levee has been added to the SPFC. It is estimated that the earliest the new levee could be built is from four to five years away; perhaps even longer if there are complications with adding the new levee to the SPFC.

○ Phase 4 Flood Safe Environmental Stewardship and Statewide Resources Office (FESSRO) Feather Setback Area Advance Mitigation Habitat project for the Central Valley Flood Protection Plan – In 2014, TRLIA received a state grant (approximately $4.4 million) to construct the TRLIA Feather River Floodway Corridor Restoration Project. See Figure 7 for location.

- Purpose: Advance Mitigation Habitat for the Central Valley Flood Protection Plan
- No additional TRLIA local funds
- Proposed to combine existing Bear River Setback and Feather River Setback trust/endowment funds with state resources to manage all three sites.
- Schedule: Proposed begin construction 2017
- In 2014, The Sacramento Valley Conservancy (SVC) was contracted with to create the Advanced Mitigation Bank Enabling Instrument (BEI) and later to be the Bank 3rd Party Manager. Also, River Partners was contracted with to design and construct the Advanced Mitigation Bank.
Phase 4 state flood corridor program 980-ac two phased Feather River Setback Area flood corridor project – It is anticipated that in 2016/17, TRLIA will apply for a state grant to construct the Three Rivers Flood Corridor Project. There are two phases to this project. See Figure 7 for location.

- Purpose: Enhance Feather River Flood Corridor O&M
- Size: 980 Acres
  - 440 Acres native seasonal habitat (Riparian and Aquatic) (Phase 1 & 2)
  - Approximately 500 Acres existing orchards remain (Phase 1)
  - Approximately 40 Acres for recreational (Phase 1)
- No additional local funds are proposed to be used beyond existing investments in setback area

- Schedule: Phase 1 begin construction 2018/19; Phase 2 TBD

**Key highlights from Fiscal Year 2015/2016:**

- As part of the ongoing work in the Goldfields, TRLIA undertook the following work:
  - Finalized mining operators Co-operative agreements.
  - Commenced and completed 95% of the construction of the interim 100-yr flood protection project.
  - Finalized the work of the Feasibility Analysis to achieve 200-yr compliance.
  - Finalized the 200-yr flood protection project CEQA document, and the TRLIA Board selected the preferred alternative.
  - Advanced efforts on the UFRR funding agreement for the 200-yr new levee project. TRLIA submitted a Final UFRR Application and is currently negotiating a funding agreement.
  - Began discussions with the state on adding the 200-yr Goldfields project into the SPFC.

- TRLIA prepared materials to support Yuba County’s finding of Adequate Progress in order to comply with SB 5 and the Urban Level Protection Guidelines.

- Continued work on the Bank Enabling Instrument, design, CEQA/NEPA documents, and permit process for the Flood Safe Environmental Stewardship and Statewide Resources Office (FESSRO) $4.4 million (500-Ac) Feather River Setback Area Advance Mitigation Habitat project. This work is ongoing and will be completed in 2016/17.

- TRLIA continued to work to establish a mitigation endowment and transfer the Bear River Setback Area and Feather River Setback Area property to the State. Currently envisioned as part of the FESSRO project work.

- As part of the completion of the FRLIP and UYLIP Agreements, TRLIA advanced property transfer efforts during 2015/16. This effort will continue in 2016/17. Until such time as the property is transferred, TRLIA’s ongoing management of Setback areas will continue.
Comparison of FY 2015/16 Budget items to Actual Revenues & Expenses:

The following provides a comparison of the budgeted FY 2015/16 expenses and revenues to the actuals through May 31, 2016. The key difference between budgeted and actual expenses is due to delays in construction work associated with the WPIC and FESSRO projects. The key difference between budgeted and actual revenues is a delay in the receipt of State funding associated with the UYRLIP and FRLIP release of retention.

**FY 2015/16 Comparison of Budgeted to Actual Expenditures through 05/31/16 (Unaudited)**

<table>
<thead>
<tr>
<th>ACCOUNT NUMBER</th>
<th>ACCOUNT DESCRIPTION</th>
<th>FY 15/16</th>
<th>FY 15/16</th>
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<tr>
<td>805-3350-425.15-00</td>
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<td>805-3350-425.23-01</td>
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<td>805-3350-425.02-02</td>
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<td>TRAVEL</td>
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<td>12,928</td>
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</table>

**TOTAL** 12,331,900 4,325,523

1/ Salaries and benefits were originally budgeted within Professional Services and tracked differently midway through the year per the Auditor Controller’s request.
2/ Actual costs represent expenses incurred through May 31, 2016, unaudited and subject to review.

**FY 2015/16 Comparison of Budgeted to Actual Revenues through 05/31/16 (Unaudited)**

<table>
<thead>
<tr>
<th>ACCOUNT NUMBER</th>
<th>ACCOUNT DESCRIPTION</th>
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<td>805-0000-371.98-99</td>
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<td>805-0000-372.99-01</td>
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<tr>
<td>805-0000-311.07-00</td>
<td>NET FUNDING DISTRICT REVENUE (ADMIN)</td>
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**TOTAL** 12,568,728 2,872,432

1/ Actual revenues represent revenues received through May 31, 2016 plus accruals, unaudited and subject to review.
2/ Revenue received reflects CFD Administrative reimbursements for services provided in prior years not previously received budget previously budgeted.
Key highlights that the FY 2016-17 TRLIA Budget accomplishes:

- As part of the ongoing work in the Goldfields, TRLIA will undertake the following work:
  - Finalize the construction work on the 100-yr Interim Goldfields project by completing the work at CS21.
  - Submit to FEMA the 100-yr Goldfields Interim addendum for the TRLIA’s FEMA 100-yr certification.
  - Perform O&M on the 100-yr Interim Goldfields embankments
  - Finalize and sign the UFRR funding agreement for the 200-yr new levee project.
  - Continue discussions with the state on adding the 200-yr Goldfields project into the SPFC.
  - Construct the WPIC levee improvement project to improving XX miles of levees that do not meet the ULDC standards.
  - Continue to work on the Bank Enabling Instrument, design, CEQA/NEPA documents, and permit process for the Flood Safe Environmental Stewardship and Statewide Resources Office (FESSRO) $4.4 million (500-Ac) Feather River Setback Area Advance Mitigation Habitat project.
  - Submission of a funding application to DWR for Phase 4 state flood corridor program 980-ac two phased Feather River Setback Area flood corridor project.
  - TRLIA will finalize the mitigation endowment and transfer the Bear River Setback Area and Feather River Setback Area property to the State. Currently envisioned as part of the FESSRO project work.
  - Prepare the required annual Adequate Progress Report to the State of California for Yuba County.
  - As part of the completion of the FRLIP and UYLIP Agreements, the following actions will take place:
    - Finalize the transfer of property to the State of California
    - Closeout the FRLIP Funding Agreement and obtain all needed retention
    - Until such time as the property is transferred, TRLIA’s ongoing management of Setback areas will continue
Projected Overall Cost and Schedule of the TRLIA Program:

Below is an updated table that outlines the anticipated program cost by Phase based upon TRLIA’s most current estimates as of the date of this report. These Overall Program Costs now reflect the incorporation of the preferred alternative for the Phase 4 Goldfields 200-Year Project.

OVERALL PROGRAM COSTS
BY PHASE

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>COSTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHASE 1</td>
<td>3,982,286</td>
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<tr>
<td>PHASE 2</td>
<td>39,907,343</td>
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<tr>
<td>PHASE 3</td>
<td>60,860,932</td>
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<tr>
<td>PHASE 4 (YUBA)</td>
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<tr>
<td>PHASE 4 (UPPER YUBA/WPIC)</td>
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<td>PHASE 4 (FEATHER SEGMENT 1)</td>
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<td>PHASE 4 (FEATHER SEGMENT 2)</td>
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<td>PHASE 4 (FEATHER SEGMENT 3)</td>
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<td>PHASE 4 (FESSRO PROJECT)</td>
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<td>PHASE 4 (GOLDFIELDS FEASIBILITY)</td>
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<td>PHASE 4 (GOLDFIELDS 200-YEAR)</td>
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<td>TOE-ACCESS CORRIDOR 1/</td>
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<td>OLIVEHURST DETENTION BASIN</td>
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<td>INTERIM O&amp;M AND UPDATE 2/</td>
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<tr>
<td>TRLIA OVERHEAD &amp; ADMIN 2/</td>
<td>18,857,316</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>482,979,086</strong></td>
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</tbody>
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1/ Toe-access corridor work would only be completed to the extent funding is made available.
2/ Based upon assumption that TRLIA’s current administrative efforts continue through June 2024.

TRLIA’s Overall Project Costs reflect the extended duration of the Levee Improvement Program. TRLIA’s budget now also reflects updated budget estimates for work in the Goldfields and the costs of Right of Way acquisition to comply with ULDC requirements.

TRLIA Revenues:

- **Levee Impact Fees – Fund No. 803:**
Pursuant to Yuba County Ordinance No. 1465 adopted on November 18, 2008 (effective January 17, 2009) Yuba County collects Levee Impact Fees from building permits to help pay for the local share of costs of levee improvements being made by TRLIA. Fee revenues collected by the County are used to service and retire the bonds issued by YLFA. TRLIA no longer receives
revenue from this fund to pay project expenses. As noted below, TRLIA does, however, collect special taxes into funds 810 and 811 and those special taxes that are collected for the purpose of advance funding fees are deposited into this account.

Pursuant to AB 1600, the Mitigation Fee Act, entities imposing development impact fees are to review the fee program on a 5-Year basis. TRLIA and the County have been working to prepare a 5-Year review and update to the levee impact fee nexus study to reflect the updated costs of the improvement program, the associated financing costs incurred by the County & YLFA, as well as any updated development projections in the benefit area. The effort will also include the additional costs associated with the Goldfields which are still under development. The cost of the update is included within this budget.

- **TRLIA General Fund No. 805:**
  This is the fund that developer advanced funding, State Proposition 13 reimbursements; levee impact fees, State Proposition 1E payments, and other miscellaneous revenues are ultimately deposited into to complete project work. This is also the fund that all TRLIA payments are made from Fund Nos. 810, 811, 813, 815, 816, 817, and 818 transfer funds into Fund No. 805 to pay project and administrative expenses.

- **TRLIA Community Facility Districts (CFD) – Fund No.'s 810 and 811:**
  TRLIA collects revenues from two CFD’s that were created in April 2007 by the landowners that were developing property in the area benefitted by the TRLIA levee improvement program. The CFD’s are called “TRLIA CFD 2006-1 (South County Area)” (Fund No. 810); and “TRLIA CFD 2006-2 (South County Overlay District)” (Fund No. 811). The special taxes levied by these CFD’s provide funding to the landowners developing the property in order to pay the Levee Impact Fee obligations imposed by County Ordinance No. 1465. TRLIA has issued CFD Bonds and the special taxes collected by the CFD’s are either being used to fund remaining fee obligations of the developers or redeem outstanding bonds. Funds collected to pay remaining fee obligations are transferred to the Levee Impact Fee Fund (803) as noted above.

  For FY 15/16 the CFD’s levied:
  - 2006-1 (Fund No. 810): $484,799.84. A portion of the collections will be used to pay TRLIA administrative expenses, the remaining funds will be used to advance levee fees or retire outstanding bond debt.
  - 2006-2: $117,752.40. A portion will be used to pay TRLIA administrative expenses, the remaining funds will be used to advance levee fees and retire outstanding bond debt.

  In March 2016, TRLIA redeemed a portion of the outstanding TRLIA CFD 2006-2 outstanding bonds associated with Tax Zones 5 and 6. Additional redemptions will take place once additional revenues collected are accounted for and there is an efficient amount for redemption.

- **Yuba Levee Finance Authority Bond Revenues – Fund No. 813:**
  On July 22, 2008, YCWA and Yuba County formed the Yuba Levee Finance Authority (YLFA) as the entity to effectuate the borrowing contemplated in the local funding agreement. On September 23, 2008, the YLFA closed on bonds sales to yield $46.6 million in project proceeds. To date, proceeds of $41,576,531 have been authorized and drawn down for the project. TRLIA recently received an additional authorization of $2,000,000 of funding for cash flow purposes from the YLFA on April 13, 2016. Project Fund Proceeds of $5,604,073
remain. As part of TRLIA’s efforts to secure funding for the implementation of the 200-Year Goldfields Project, TRLIA is utilizing this remaining funding to provide the local share of funding needed to complete this project.

- **FESSRO Grant Agreement – Fund No. 815:**
  On August 29, 2014, TRLIA executed a grant agreement with DWR for $4.4 million to advance the FESSRO Project. Project related expenses to advance the work on the FESSRO project are expended from Fund 805, TRLIA Special Project Fund. Revenues from DWR Grant and future revenues from the disposition of Advance Mitigation Credits generated by the Project are deposited into Fund 815 and operating transfers are made from Fund 815 into 805 (Revenue account 805-0000-372.99-01 as an operating transfer) to reimburse TRLIA for eligible expenses.

- **State Proposition 1E Early Implementation Program (EIP) funding Agreements – Funds 816 and 817:**
  TRLIA currently has two EIP funding agreements:
  - Modified Feather River EIP Agreement total project cost is $200.5 million (State Share $154.79 million) – Modified Funding Agreement Approved by DGS May 28, 2014. The State Share of expenses for this project advanced to TRLIA are deposited into Fund No. 816. Once eligible expenses are paid from fund 805, the State share of the expenses are transferred from fund 816 into 805 (Revenue account 805-0000-361.62-51). Any reimbursements for the State share of expenses previously incurred by TRLIA that are funded pursuant to this agreement are deposited directly into the same revenue account within the 805 fund.
  - Upper Yuba River EIP Agreement total project cost are approved up to $67.8 million of which approximately $7.7 million is prior work (State share $47.43 million). However, the project costs of the original scope of work have ultimately come in much lower based upon actual construction bids received after the completed design. TRLIA has received approval from the State for the expansion of the scope of work to include work associated with the Western Interceptor Canal and the 1986 Yuba River Break Site to ensure compliance with Urban Levee Design Criteria. The revised project costs which have been submitted to the State through the Work Plan Budgeting process now total $57.821 million. State funding is now expected to total $40.261 million. Advanced State funding for this project is deposited to Fund No. 817. Once eligible expenses are paid from fund 805, the State share of the expense is transferred from fund 817 into 805 (Revenue account 805-0000-361.62-50). Any reimbursements for the State share of expenses previously incurred by TRLIA that are funded pursuant to this agreement are deposited directly into the same revenue account within the 805 fund.

- **TRLIA Benefit Assessment District – Fund No. 818:**
  On June 2, 2009 the TRLIA Board adopted a resolution to form the Benefit Assessment District to pay for the additional long-term maintenance and operation costs on the 29 miles of improved levees. The FY15/16 levy for the Assessment District was $975,983.49. For the FY 15/16 year (through May 31, 2016) the revenues from tax collections and interest deposited into Fund No.
818 (net of County related expenses) were $942,275.89 The prior year balance carried forward to this fiscal year was $134,084.24.

**Other TRLIA Budget Items of Note:**

- **Environmental Escrow Accounts:**
  TRLIA has established two Environmental Escrow Accounts to pay for Corps of Engineers 404 permit requirements:

  - **Bear River Setback Area:** The 404 permit requires TRLIA to create an endowment large enough to continually pay for long term monitoring and maintenance of the Setback Area. The approved initial amount per the Property Analysis Record is $2,141,695. This amount has been placed into the escrow account and is generating interest. Property is anticipated to be transferred to the State by 2016. The estimated annual cost of the maintenance contract is $88,115 (subject to timing and inflationary adjustments). TRLIA plans to incorporate this property into the Flood Corridor Protection Program and FESSRO Advanced Mitigation Site projects. TRLIA has contracted with the Sacramento Valley Conservancy (SVC) to be the 3rd Party Manager for this Area.

  - **Feather River Wetlands and Drainage Swale Area:** The 404 permit requires TRLIA to do the following items:
    - Obtain a performance bond that could be used to fix the Wetlands and Drainage Swale Areas should they not meet the 3 year performance criteria. The performance period is anticipated to end in 2014. The approved bond amount is $220,286, which has been deposited into the escrow account.
    - Create an endowment large enough to continually pay for long term monitoring and maintenance of the Wetlands and Drainage Swale Areas. The approved initial amount is $430,289. This amount has been placed into the escrow account and is drawing interest. Property is anticipated to be transferred to the State by 2016. The estimated annual cost of the maintenance contract is $20,000 (subject to timing and inflationary adjustments). TRLIA plans to incorporate this property into the Flood Corridor Protection Program and FESSRO Advanced Mitigation Site projects. TRLIA has contracted with the Sacramento Valley Conservancy (SVC) to be the 3rd Party Manager for this Area.

- **TRLIA Feather Setback Area Applications:**
  - **Phase 4 Flood Safe Environmental Stewardship and Statewide Resources Office (FESSRO) Feather Setback Area Advance Mitigation Habitat project for the Central Valley Flood Protection Plan** – In 2014 TRLIA received a State grant (approximately $4.4 million) to construct the TRLIA Feather River Floodway Corridor Restoration Project.
    - Purpose: Advance Mitigation Habitat for the Central Valley Flood Protection Plan
    - Size: 500 Acres
● No additional TRLIA local funds
● Proposed to combine existing Bear River Setback and Feather River Setback trust/endowment funds with State resources to manage all three sites.
● Schedule: Proposed begin construction 2017
● In 2014, the Sacramento Valley Conservancy (SVC) was contracted with to create the Advanced Mitigation Bank Enabling Instrument (BEI) and later to be the Bank 3rd Party Manager. Also, River Partners was contracted with to design and construct the Advanced Mitigation Bank.

○ **Phase 4 state flood corridor program 980-ac two phased Feather River Setback Area flood corridor project** – It is anticipated that in 2015/16, TRLIA will apply for a state grant to construct the Three Rivers Flood Corridor Project. Funding would come from future programs expected to be implemented using Proposition 1 funding. There are two phases to this project.
  ● Purpose: Enhance Feather River Flood Corridor O&M
  ● Size: 980 Acres
  ▪ 440 Acres native seasonal habitat (Riparian and Aquatic) (Phase 1 & 2)
  ▪ Approximately 500 Acres existing orchards remain (Phase 1)
  ▪ Approximately 40 Acres for recreational (Phase 1)
  ● No additional local funds are proposed to be used beyond existing investments in setback area
  ● Schedule: Phase 1 begin construction 2018/19; Phase 2 TBD

● **Levee and Levee Toe-Access Corridor Land Acquisition**
  On February 1 and February 15, 2010, the TRLIA Board approved a new Real Estate Plan and adopted an amended budget for FY 2010/11 to provide appropriations for the support and acquisition of a Toe –Access Corridor along the Feather Segments 1 & 3, Upper Bear and WPIC, and Lower Yuba (Hwy 70 to Simpson Lane). This work is required as part of the encroachment permits associated with that prior completed work by TRLIA.

● **TRLIA Memberships:**
  TRLIA belongs to the California Central Valley Flood Control Association, Butte-Yuba-Sutter Water Quality Coalition, and the Floodplain Management Association (FMA). This budget includes TRLIA maintaining these memberships.

● **TRLIA Outreach:**
  As noted in prior year budgets, that due to TRLIA’s success in quickly completing the RD 784 levee major levee improvements, achieving FEMA levee system accreditation and ULOP Certification, TRLIA staff will continue to be asked to share how it was all done and what this all means for Yuba County. The outreach effort could lead to new opportunities for Yuba County. The FY 16/17 budget includes $40,000 for continued outreach efforts.

● **Evaluation of Interim Levee Design Criteria and 200-Year Compliance Determination**
  As part of DWR’s implementation of SB 5, DWR has promulgated new Urban Levee Design Criteria and Urban Level of Protection guidance on the design of levees protecting urban areas and requirements for 200-Year protection. Since February of 2011, TRLIA has been performing a comprehensive analysis of the work it has completed in order to ensure that the 200-Year
criteria that TRLIA has used to implement its projects complies with the new criteria promulgated by DWR. The County, in order to comply with the requirements of SB-5 and move forward with development plans in the South County area will need to demonstrate how it can provide the required urban level of flood protection by July 2025. TRLIA completed its analyses work and its design consultants implemented the approach the board approved in February of 2010. This work has been done in coordination with the state Urban Levee Evaluation Team program. TRLIA has prepared materials to support the County’s findings of Adequate Progress that are needed in order for planned development to continue in Plumas Lake and East Linda. TRLIA will continue to support this effort by preparing annual reports to the CVFPB as required by SB 5 until TRLIA completes the needed improvements and prepares the required materials that can support the County’s findings that the levee system provides 200-Year protection. This budget includes the preparation of the needed annual reports to the CVFPB.

**Goldfields**

In order to ensure that TRLIA can obtain an Addendum to its FEMA 100-Year certification that reflects protection from the recently improved Upper Yuba Levee, TRLIA needs to ensure that this levee ties into high ground at the Goldfields. In October 2011, TRLIA completed an analysis showing at certain points within the Goldfields, a risk of flooding could occur during a 100-Year storm event contrary to the conclusion the Corps of Engineers had concluded in March 2010. In order to address this TRLIA embarked on a Feasibility Study and Alternatives analysis, cost shared with the State to complete the following actions; 1) Prepare an analysis of any additional work needed to certify 100-year protection, 2) Prepare a further Feasibility Analysis to determine any efforts needed to achieve 200-Year protection and 3) Develop a plan to ensure that 200-Year level of protection can be provided and maintained in coordination with existing mining efforts in the area. TRLIA has completed the Feasibility/Alternatives Analysis and the implementation of 100-Year actions in FY 15/16. TRLIA is advancing the 200-Year solution and working to formalize a funding agreement with State based on the State’s commitment of up to $32,600,000 to construct a new levee south of the Goldfields to provide 200-Year protection to South Yuba County. TRLIA will continue to advance this effort as part of the 2016/17 Budget.

**TRLIA Prior Year Funds**

In order to cover the projected $480 million of costs of TRLIA’s levee improvement program, TRLIA has had various sources of funding. These funds can be categorized into two major categories, Non-Local Funding and Local Funding.

Non-Local funding can be summarized as follows:
- State Funding through the Department of Water Resources
  - Various Proposition 13 Grants, two Proposition 1E EIP Project funding agreements, and one Proposition 1E UFRR Project funding agreement
- State Funding through the Department of Fish & Game
  - Has come through three separate Prop 13 Grants
- Federal Funding through FEMA for the Olivehurst Detention Basin

Local Funding can be summarized as follows:
- Advance funded Three Rivers Levee Impact Fees
  - From various agreements with developers in Plumas Lake

TRLIA FY 2016/17 Budget 22
- From the borrowing by the County and YCWA (jointly YLFA) to advance fees to specifically cover Phase 4 costs
  - Advances from RD 784 for work done by TRLIA on RD 784 pump station facilities and later reimbursements if costs exceed initial advancement
  - Revenues from the TRLIA Assessment District to cover the direct costs of administering the Assessment District
  - Revenues from the TRLIA CFD’s to cover the direct costs of administering the districts
  - Income from Feather Setback Farming leases
  - Interest earned on cash balances

As TRLIA’s levee improvement program progressed over time, the timing of the above funding being made available to TRLIA to cover current project related costs varied. In general, TRLIA’s local funding sources from Advanced Three Rivers Levee Fees came sooner than State Funding through Prop 13 and Prop 1E. Essentially, in order to complete the project in an aggressive time frame and maintain sufficient cash flow to meet the current costs of the program, TRLIA needed to use Local Funding from the Advanced Three Rivers Levee fees received from Developers and YLFA to cover not only the local share of the costs of the various projects, but ultimately the State’s share of those costs as well. As time has passed, TRLIA has received reimbursements from the State through Prop 13 as well as payments through the EIP funding agreements thus recovering those Local Funding sources. This funding has come in the form of credit for the state share of applicable prior work as outlined in both the (Feather and Upper Yuba) Prop 1E funding agreements.

As TRLIA’s program progresses and the State funded portions of TRLIA’s projects come to a close and all final reimbursements and retention from the State are received, TRLIA will rely on these reimbursements that represent previously advanced local funds to complete its mission of providing 200-Year flood protection for the South County.

As noted above, there are two sources of Advanced Three Rivers Levee Impact Fees. Various funding agreements and funding districts (CFD’s) were implemented by TRLIA between 2004 and 2008 with local developers / home builders. The money advanced through these agreements TRLIA refers to as “Prior Year Funds.” In 2008, the Yuba Levee Finance Authority executed its borrowing to provide funding specifically for the local costs of Phase 4 Improvements. In doing this, the YLFA would receive all Levee Impact Fees in order to pay off this borrowing. To provide an estimate of the current balance of “Prior Year Funds,” so that TRLIA can allocate this funding to specific activities, TRLIA has reviewed its expenditures to date associated with Phase 4 activities and determined the local responsibility for those expenditures, and compared this amount to the funding provided by YLFA to date. Any funding received by TRLIA to date making up its current balance within its 805 fund, net of any excess amount provided by YLFA, would constitute “Prior Local Funding.” The Table below shows the total local share of the Phase 4 EIP project costs and the total amount of funds advanced by the YLFA to date.

<table>
<thead>
<tr>
<th>Total Local Share of EIP Costs to Date</th>
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</thead>
<tbody>
<tr>
<td>Total Funding Authorized by YLFA to Date</td>
</tr>
</tbody>
</table>

TRILIA FY 2016/17 Budget
Local Share of Costs

FRLIP Local Share of Costs

Segment 2 Non-Real Estate $19,750,383
Segment 2 Real Estate $6,695,556
Segment 3 $4,223,520
Segment 1 $3,888,252
Overhead $1,476,305
Subtotal FRLIP Local Costs $36,034,016

Upper Yuba Local Costs $12,139,749
(Less) Total Local Share of Costs $48,173,765

($6,597,234)

Thus far, YLFA has authorized $6,597,234 less than the local share of the Phase 4 EIP project costs to date. At the end of FY 15/16, TRLIA requested additional funding from YLFA in order to meet the cash flow requirements of the project. However, because YLFA’s funding is less than the local share costs of the Phase 4 work to date, additional funding from YLFA represents reimbursements to TRLIA for prior completed Phase 4 work to date. As TRLIA continues to advance efforts to construct the 200-Year Goldfields project, TRLIA will be required to demonstrate available local funding to match committed State funds through DWR’s Urban Flood Risk Reduction Program. TRLIA expects that the remaining YLFA funds, approximately $ 5.023 million, will be requested to reimburse TRLIA for the local share of Phase 4 efforts in order to provide cash flow for the local share of the Goldfields Project.
# TRLIA Fiscal Year 2016-2017 Budget

## Account Number

<table>
<thead>
<tr>
<th>Account Number</th>
<th>Account Description</th>
<th>Estimated Expenditures</th>
<th>Request 2016-2017</th>
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<td>805-3350-425.15-00</td>
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<td>Upper Yuba (WPIC &amp; 86 Break Site 200-Year)</td>
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<td>Feather Levee Work (Segments 1 - 3 balance of work)</td>
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<td>Feather River Flood Corridor Protection Project</td>
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<tr>
<td></td>
<td>Feather River FESSRO Project</td>
<td></td>
<td>3,420,024</td>
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<tr>
<td></td>
<td>Goldfields Feasibility Study &amp; Implementation</td>
<td></td>
<td>77,448</td>
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<td></td>
<td>Goldfields 200-Year UFRR Project</td>
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<td>2,708,367</td>
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<td></td>
<td>200-Year Compliance Work (Non-EIP Areas)</td>
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<td>TRLIA Outreach</td>
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<td>805-3350-425.29-00</td>
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**Total** | **18,137,447**

## Estimated Revenues

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<tr>
<th>Account Number</th>
<th>Revenue Source</th>
<th>Amount 2016-2017</th>
<th>Request 2016-2017</th>
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<td>805/817-0000-361.62-50</td>
<td>Prop 1E Yuba - State Share (Advance &amp; Reimbursement)</td>
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<tr>
<td>805/816-0000-361.62-51</td>
<td>Prop 1E Feather - State Share (Advances &amp; Retention)</td>
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<td>805-0000-371.98-99</td>
<td>Miscellaneous Revenue (Interest)</td>
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<td>805-0000-361.62-52</td>
<td>Prop 13 YFFP Program Funding (Goldfields)</td>
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<td>/7</td>
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<tr>
<td>805-0000-372.99-01</td>
<td>OP. Transfers In (Prop 1E/84 FESSRO Fund 815)</td>
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<td>805-0000-372.99-01</td>
<td>OP. Transfers In (YLFU Funds Fund 813)</td>
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<tr>
<td>TBD</td>
<td>Prop 1E Goldfields 200-Year UFRR (Fund TBD)</td>
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<tr>
<td>805-0000-311.07-00</td>
<td>Net Funding District Revenue (Admin)</td>
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**Total** | **18,034,072**

## Estimated Fund Balances (FY 16/17)

<table>
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<tr>
<th>Account Number</th>
<th>Starting Fund Balances (From 15/16)</th>
<th>Plus Revenues</th>
<th>LESS Expenses</th>
<th>ENDING Fund Balances (Carryover to 17/18)</th>
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<tr>
<td>805/815/816/817-0000-101.01-00</td>
<td>639,946</td>
<td>18,034,072</td>
<td>-18,137,447</td>
<td>536,571</td>
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1/ Source for Special Project Budget is TRLIA Cash Flow Spreadsheet 5-23-16.
2/ Includes CFD and Assessment District administration. Contracts with SCI & LWA. Shown separately from Special Projects for clarity.
3/ Includes O&M Cost of County Vehicle Provided to TRLIA
4/ Represents advance funding from the State per Upper Yuba funding agreement transferred from fund 817 and direct reimbursements into 805 Fund.
5/ Represents advance funding from the State per Feather River funding agreement transferred from fund 816 and direct reimbursements into 805 Fund.
6/ Represents interest earned in 805 fund balance (note - for conservative purposes, no interest is budgeted).
7/ Represents Prop 13 YFFPP Funding Agreement for Goldfields Feasibility Study (reflected retention being released).
8/ Represents funding from FESSRO Grant. Funds from the grant are placed into Fund 815 and transferred to 805 to reimburse costs.
9/ Represents use of additional YLFU Bond Proceeds.
10/ Pending UFRR Funding Grant, fund to be determined upon execution of the Grant.
11/ Represents transfers from funds 810, 811 and 816 to cover CFD and Assessment District administrative expenses.
12/ Represents an estimated starting 805, 816 and 817 fund carryover balance for FY 15/16 based upon projections.
### SPECIAL PROJECTS DETAIL (#23-01)

#### PHASE

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<thead>
<tr>
<th>Description</th>
<th>Design</th>
<th>Permitting</th>
<th>Construction</th>
<th>CM</th>
<th>ROW Capital &amp; Support /1</th>
<th>Environmental / Mitigation / Restoration</th>
<th>Interim O&amp;M</th>
<th>PM &amp; Planning /1</th>
<th>Total</th>
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<tbody>
<tr>
<td>TRLIA Phase 3 Levee Improvement Bear River Setback Levee</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<td>77,736</td>
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<td>TRLIA Phase 4 Upper Yuba Levee Improvement WMC &amp; 1796 Break Site 200-Year Work</td>
<td>48,585</td>
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<td>9,301,056</td>
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<td>TRLIA Phase 4 Feather Levee Improvement Segments 1, 2 &amp; 3 - Balance of Work</td>
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<td>Goldfields 200-Year UFR Project 1,631,474</td>
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<td>200-Year Non-EIP Compliance (Determination &amp; Implementation)</td>
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<td><strong>TOTALS</strong></td>
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1/ Specific Support and Project Management Contract estimates are detailed below. Additional project specific contracts are included within the PM budget.

### TRLIA PROJECT MANAGEMENT CONTRACTS (#23-01)

#### Work Included w/in Management

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<tr>
<th>CONTRACTOR</th>
<th>Management</th>
<th></th>
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<tbody>
<tr>
<td>MBK (Program Mgmt &amp; Design Mgmt)</td>
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<tr>
<td>Downey Brand (General Counsel)</td>
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<tr>
<td>LWA (Financial Consultant)</td>
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<tr>
<td>TBD (Auditing)</td>
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<tr>
<td>Sacramento Valley Conservancy</td>
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<tr>
<td>Floyd Communications (Public Outreach)</td>
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**TOTAL**                                       | 306,000    |         |

TRLIA FY 2016/17 Budget
2016/2017 PROFESSIONAL SERVICES DETAIL (#23-02)

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<th>2015/2016</th>
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<td>Public Works Admin Salaries, Benefits, and Expenses</td>
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<td>CAO, Auditor, &amp; Treasurer Salary, Benefits, and Expenses</td>
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<tr>
<td>Clerk of the Board Salary, Benefits, and Expenses</td>
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<tr>
<td>TRLIA General Expenses (Services, Supplies &amp; Office)</td>
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<tr>
<td><strong>TOTAL</strong></td>
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1/ Estimated at $7,000 per month

2016/2017 SALARIES & BENEFITS DETAIL

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<th>AMOUNT</th>
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<tr>
<td>805-3350-425.02-02</td>
<td>BENEFITS/CO SHARE PERS</td>
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<td>BENEFITS/HEALTH INSURANCE</td>
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<td>805-3350-425.02-07</td>
<td>BENEFITS/LIFE INSURANCE</td>
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<td><strong>TOTAL</strong></td>
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### TRLIA

#### ESTIMATED FISCAL YEAR 2017-2018 BUDGET

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<td>Upper Yuba (WPIC &amp; '86 Break Site 200-Year)</td>
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<td>Feather Levee Work (Seg's 1 - 3 Balance)</td>
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**TOTAL**

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<tbody>
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<td>805/817-0000-361.62-50</td>
<td>PROP 1E Yuba - State Share (Advance &amp; Reimbursement)</td>
<td>1,696,418</td>
</tr>
<tr>
<td>805/816-0000-361.62-51</td>
<td>PROP 1E Feather - State Share (Advances &amp; Retention)</td>
<td>4,890,477</td>
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<tr>
<td>805-0000-371.98-99</td>
<td>MISCELLANEOUS REVENUE (INTEREST)</td>
<td>0</td>
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<tr>
<td>805-0000-361.62-52</td>
<td>Prop 13 YFPP Program Funding (Goldfields)</td>
<td>0</td>
</tr>
<tr>
<td>805-0000-372.99-01</td>
<td>OP. TRANSFERS IN (PROP 1E/84 FESSRO FUND 815)</td>
<td>1,955,509</td>
</tr>
<tr>
<td>805-0000-372.99-01</td>
<td>OP. TRANSFERS IN (YLFA FUNDS FUND 813)</td>
<td>0</td>
</tr>
<tr>
<td>TBD</td>
<td>PROP 1E Goldfields 200-Year UFRR (FUND TBD)</td>
<td>4,721,494</td>
</tr>
<tr>
<td>805-0000-311.07-00</td>
<td>NET FUNDING DISTRICT REVENUE (ADMIN)</td>
<td>29,000</td>
</tr>
</tbody>
</table>

**TOTAL**

<table>
<thead>
<tr>
<th>ACCOUNT NUMBER</th>
<th>STARTING FUND BALANCE (CARRYOVER FROM 16/17)</th>
<th>ENDING FUND BALANCE (CARRYOVER TO 18/19)</th>
</tr>
</thead>
<tbody>
<tr>
<td>805/815/816/817-0000-101.01-00</td>
<td>536,571</td>
<td>6,439,770</td>
</tr>
</tbody>
</table>
| 805/815/816/817-0000-101.01-00 | 13,292,899 | /

1/ Source for Special Project Budget is TRLIA Cash Flow Spreadsheet 5-23-16.
2/ Includes CFD and Assessment District administration. Contracts with SCI & LWA. Shown separately from Special Projects for clarity.
3/ Includes O&M Cost of County Vehicle Provided to TRLIA.
4/ Represents reimbursement funding from the State per Upper Yuba funding agreement transferred from fund 817 and reimbursements into 805 Fund.
5/ Represents retention funding from the State per Feather River funding agreement transferred into 805 Fund.
6/ Represents interest earned in 805 fund balance (note – for conservative purposes, no interest is budgeted).
7/ Represents Prop 13 YFPP Funding Agreement for Goldfields Feasibility Study (assumes grant is closed out by 17/18)
8/ Represents funding from FESSRO Grant. Funds from the grant are placed into Fund 815 and transferred to 805 to reimburse costs.
9/ Represents use of YLFA Bond Proceeds. Funding is expected to be fully expended by 2017/18.
10/ Proposed UFRR Funding Grant, fund to be determined upon execution of the Grant.
11/ Represents transfers from funds 810, 811 and 818 to cover CFD and Assessment District administrative expenses.
12/ Represents an estimated starting 805, 816 and 817 fund carryover balance for FY 17/18 based upon projections.
<table>
<thead>
<tr>
<th>PHASE</th>
<th>Design</th>
<th>Permitting</th>
<th>Construction</th>
<th>CM</th>
<th>ROW Capital &amp; Support /1</th>
<th>Environmental/ Mitigation/ Restoration</th>
<th>Interim O&amp;M</th>
<th>PM &amp; Planning/1</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRLIA Phase 4 Upper Yuba Levee Improvement</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>77,000</td>
<td>77,000</td>
</tr>
<tr>
<td>WPIC &amp; 1986 Break Site 200-Year Work</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>33,433</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>33,433</td>
</tr>
<tr>
<td>TRLIA Phase 4 Feather Levee Improvement</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
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</tr>
<tr>
<td>Segments 1, 2 &amp; 3 - Balance of Work</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Feather River Flood Corridor Protection Project</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>19,000</td>
<td>19,000</td>
</tr>
<tr>
<td>Feather River FESSRO Project</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>85,000</td>
<td>85,000</td>
</tr>
<tr>
<td>Goldfields Feasibility Study &amp; Implementation</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>27,860</td>
<td>27,860</td>
</tr>
<tr>
<td>Goldfields 200-Year UFRR Project</td>
<td>1,700,416</td>
<td>798,666</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>3,468,625</td>
<td>0</td>
<td>0</td>
<td>215,000</td>
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<tr>
<td>200-Year Non-EIP Compliance (Determination &amp; Implementation)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<td>0</td>
<td>0</td>
<td>60,000</td>
<td>60,000</td>
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<tr>
<td><strong>TOTALS</strong></td>
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<td>$798,666</td>
<td>$0</td>
<td>$0</td>
<td>$3,502,058</td>
<td>$0</td>
<td>$0</td>
<td>$27,860</td>
<td>$463,000</td>
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</table>

1/ Specific Support and Project Management Contract estimates are detailed below. Additional project specific contracts are included within the PM budget.

**TRLIA PROJECT MANAGEMENT CONTRACTS (#23-01)**

<table>
<thead>
<tr>
<th>CONTRACTOR</th>
<th>Work Included w/in</th>
<th>Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBK (Program Mgmt &amp; Design Mgmt)</td>
<td>96,000</td>
<td></td>
</tr>
<tr>
<td>Downey Brand (General Counsel)</td>
<td>120,000</td>
<td></td>
</tr>
<tr>
<td>LWA (Financial Consultant)</td>
<td>40,000</td>
<td></td>
</tr>
<tr>
<td>Mike Hinz (Auditing)</td>
<td>15,000</td>
<td></td>
</tr>
<tr>
<td>Sacramento Valley Conservancy</td>
<td>20,000</td>
<td></td>
</tr>
<tr>
<td>Floyd Communications (Public Outreach)</td>
<td>15,000</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>306,000</td>
<td></td>
</tr>
</tbody>
</table>

TRLIA FY 2016/17 Budget 30
# 2017/2018 Professional Services Detail (#23-02)

## Detail Description

<table>
<thead>
<tr>
<th>Description</th>
<th>2015/2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Works Admin Salaries, Benefits, and Expenses</td>
<td>114,000</td>
</tr>
<tr>
<td>CAO, Auditor,&amp; Treasurer Salary, Benefits, and Expenses</td>
<td>5,000</td>
</tr>
<tr>
<td>Clerk of the Board Salary, Benefits, and Expenses</td>
<td>5,000</td>
</tr>
<tr>
<td>TRLIA General Expenses (Services, Supplies &amp; Office)</td>
<td>84,000 /1</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>208,000</strong></td>
</tr>
</tbody>
</table>

1/ Estimated at $7,000 per month

## 2017/2018 Salaries & Benefits Detail

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>805-3350-425.01-01</td>
<td>SALARIES/REGULAR</td>
<td>212,000</td>
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<tr>
<td>805-3350-425.02-02</td>
<td>BENEFITS/CO SHARE PERS</td>
<td>36,000</td>
</tr>
<tr>
<td>805-3350-425.02-04</td>
<td>BENEFITS/HEALTH INSURANCE</td>
<td>18,200</td>
</tr>
<tr>
<td>805-3350-425.02-05</td>
<td>BENEFITS/MEDICARE</td>
<td>2,500</td>
</tr>
<tr>
<td>805-3350-425.02-07</td>
<td>BENEFITS/LIFE INSURANCE</td>
<td>200</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td><strong>268,900</strong></td>
</tr>
</tbody>
</table>
June 21, 2016

TO: Three Rivers Levee Improvement Authority Board
FROM: Paul Brunner, Executive Director

SUBJECT: Approve Amendment 19 to the existing GEI Contract for additional Professional Services

Recommended Action:
Approve Amendment 19 to the existing contract with GEI for additional Professional Services, to provide pre-construction, construction, and post construction biological monitoring for the WPIC the Western Pacific Interceptor Canal (WPIC) 200-Year Standard Project, and authorize the Executive Director to negotiate, sign and execute the final amendment upon review by General Counsel.

Discussion
Biological monitoring and reporting before, during, and after construction of the WPIC Project is required as part of the commitments made by TRLIA in the Final IS/MND, Mitigation and Monitoring Plan, and as required by environmental permits received from the regulating agencies. This work was previously included in the scope and budget of Amendments 8 and 11 of the Professional Services Agreement with AECOM Technical Services Inc. However, since the previous amendments to the AECOM were executed, unanticipated work has been necessary to complete CEQA compliance and secure environmental permits for the project. As a result, the funds intended for construction-related biological services were expended to cover these tasks and additional funds are necessary to perform the biological construction monitoring and reporting work.

A future amendment may be required to support Native American monitoring during construction. However, at this time, the intention is to use funds provided in GEI Amendment 18 to cover these expenses to the extent possible.

Fiscal Impact
This amendment would increase the GEI contract by an amount not to exceed $149,902 for services on a time and expenses basis, which brings the GEI contract amount to $23,660,515. The work would be accomplished using State funds (70% state share) via the UYLIP EIP funding agreement.

Attachments
1. GEI Amendment 19 Scope of Work, Letter dated June 15, 2016
2. GEI 19th Contract Amendment
June 15, 2016

Mr. Paul Brunner, Executive Director
Three Rivers Levee Improvement Authority
1114 Yuba Street, Suite 218
Marysville, CA 95901

Re: Agreement for Professional Services on Three Rivers Levee Improvement Authority’s Phase 4 Feather River Levee Repair Project Contract – Request for Amendment No. 19 (WPIC Continuing Environmental Services through 2019)

Dear Mr. Brunner:

In follow up to recent conversations between Phil Dunn and yourself, the purpose of this letter is to present a proposed scope of work and budget to complete environmental support of TRLIA’s Western Pacific Interceptor Canal 200-Year Standard Project. The environmental tasks described below include those required to complete all environmental mitigation, monitoring, and reporting requirements during and after project construction. These tasks are a continuation of those currently being implemented by GEI and AECOM staff under the existing agreement between TRLIA and AECOM.

Since the previous amendments to the AECOM scope of services were developed, additional unanticipated work has been necessary to complete CEQA compliance, secure all environmental permits required for the project, and facilitate compensatory mitigation for air quality and biological resource impacts. As a result, some funds intended for construction-related biological services were expended to cover these unanticipated tasks and keep the project on schedule, and additional funds are necessary to complete the biological construction monitoring and reporting requirements and fulfill post-construction biological monitoring and reporting.

The cost estimates for these tasks are included in Attachment 1. In summary, we estimate that a net budget increase of $149,902 is needed to complete the tasks described below, which will be implemented by GEI, with support from AECOM. These tasks will be managed by Anne King in our Rancho Cordova office under Phil’s supervision. GEI has estimated the work and budget required through December 2019, when all permit requirements are expected to have been met.

The following scope of services includes additional funds for Tasks 6 and 7, as described in the previous AECOM scopes of services. Task 9 describes new services.
Task 6: Project Management

Implementing services described in this amendment requires time for associated management activities, including maintaining close communication with TRLIA and other project team members, attending meetings and calls, managing environmental schedules and budgets, reviewing products prepared by other project team members (as needed), and ensuring proper QA/QC of GEI deliverables.

Task 7: Construction-Related Biological Services

GEI will provide oversight of biological services associated with project construction. Field staff will be provided by GEI and AECOM. GEI and AECOM biologists will coordinate closely with the HDR construction manager and the construction contractor regarding proper installation, monitoring, and maintenance of avoidance and minimization measures. Biologists will conduct regular monitoring visits to verify implementation of biological resource protection measures throughout the construction period. A monitoring biologist will be onsite daily during initial ground-disturbing activities (installing avoidance and minimization measures and clearing, grubbing, and stripping) and will conduct weekly monitoring visits after initial ground disturbance is complete. This scope assumes initial ground disturbance will be completed in a maximum of 30 days. GEI will document monitoring efforts in memoranda and/or letter reports, in compliance with environmental permit conditions. Draft reports will be provided electronically to TRLIA for review, and any necessary revisions will be made before final reports are submitted electronically to resource agencies.

Deliverables:
- Five monthly draft and final compliance reports (July, August, September, November, and December 2016)
- Annual draft and final compliance report (October 2016)
- Draft and final project completion report (January 2017)

Task 9: Post-Construction Biological Monitoring and Reporting

GEI will complete post-construction monitoring and reporting necessary to comply with environmental permit requirements. This includes monitoring potential giant garter snake upland habitat that is disturbed during project construction and revegetated with native seed mix following construction. Permits require that all restored habitat be monitored for 3 years following restoration to determine the success of the revegetation efforts. Monitoring efforts will document success of natural revegetation establishment, survival, and percent cover. In addition, GEI will assess inundation of vernal pool crustacean habitat adjacent to the construction area to confirm project implementation does not adversely affect the hydrology of the habitat and render it unsuitable. GEI will prepare annual reports describing methods and results of monitoring efforts. Draft reports will be provided electronically to TRLIA for review and any necessary revisions will be made before final reports are submitted electronically to resource agencies.
Deliverables:

- Three annual draft and final post-construction monitoring reports

Key Assumptions:

- Only one field monitoring visit will be required each year
- Vernal pool crustacean habitat inundation can be determined within the 3-year monitoring period (may not be feasible if drought conditions affect inundation)

Consistent with the approach for Amendment 18, GEI has agreed to use 2013 billing rates for this work. The billing rates are included in Attachment 2.

The scope and budget adjustments contained herein represent our best estimate at this time to perform the activities discussed above. In the event that an unforeseen task not included in this scope of work exceeds the hours provided in the scope and budget, GEI will communicate the changes to TRLIA and develop a scope and budget for the additional work. With this said, we strive to conduct our work as efficiently as possible. We will manage our efforts and strive to keep actual costs under the approved budget.

We are pleased with the opportunity to continue working with you and your staff on this vitally important project. Please call me, Phil Dunn at 916-341-9127, or Dan Wanket at 510-350-2916 if you have any questions.

Sincerely,
GEI Consultants,

[Signature]

Alberto Pujol, P.E., G.E.
Project Manager

Attachments 1 and 2

CC: Claire Marie Turner and Ric Reinhardt (MBK Engineers) 
    Dan Wanket, Phil Dunn, and Anne King (GEI Consultants)
## Attachment 1

### Cost Estimate Table

#### Table 1
Three Rivers Levee Improvement Authority
GEI Cost Estimate - Amendment No. 19

<table>
<thead>
<tr>
<th>Work Item</th>
<th>GEI Costs (2013 Rate Schedule)</th>
<th>Estimated Cost for Out-of-Scope Items</th>
<th>Total</th>
<th>Comments/Assumptions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hours</td>
<td>Rate</td>
<td>Labor</td>
<td>ODC</td>
</tr>
<tr>
<td>Task 6: Project Management</td>
<td>80</td>
<td>14,800</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Task 7: Construction-Related Biological Services</td>
<td>506</td>
<td>79.466</td>
<td>1,000</td>
<td>100</td>
</tr>
<tr>
<td>Task 9: Post-Construction Monitoring and Reporting</td>
<td>390</td>
<td>53.436</td>
<td>1,000</td>
<td>100</td>
</tr>
</tbody>
</table>

Total Estimated Cost: $149,902

#### Table 2
Three Rivers Levee Improvement Authority
GEI Cost Estimate Detail for Amendment No. 19

<table>
<thead>
<tr>
<th>Item</th>
<th>Project Director Gr 9</th>
<th>Project Manager Gr 6</th>
<th>Wetland Specialist Gr 6</th>
<th>Restoration Ecologist Gr 6</th>
<th>Restoration Ecologist Gr 5</th>
<th>Biologist Gr 2</th>
<th>GIS Gr 4</th>
<th>Admin (WP, Graphics, Editing)</th>
<th>GEI Est. LOE</th>
<th>Estimated Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Task 6 Project Management</td>
<td>294</td>
<td>179</td>
<td>179</td>
<td>179</td>
<td>157</td>
<td>108</td>
<td>133</td>
<td>88</td>
<td></td>
<td>$14,800</td>
</tr>
<tr>
<td>Total</td>
<td>294</td>
<td>179</td>
<td>179</td>
<td>179</td>
<td>157</td>
<td>108</td>
<td>133</td>
<td>88</td>
<td></td>
<td>$14,800</td>
</tr>
</tbody>
</table>

| Task 7 Construction-Related Biological Services | 16 | 260 | 30 | 0 | 0 | 0 | 0 | 110 | 60 | 34 | 56 | 79.466 | $1,000 | $100 | $80,566 |
| Total | 16 | 260 | 30 | 0 | 0 | 0 | 0 | 110 | 60 | 34 | 56 | 79.466 | $1,000 | $100 | $80,566 |

| Task 9 Post-Construction Biological Monitoring and Reporting | 6 | 20 | 0 | 56 | 96 | 172 | 20 | 20 | 390 |                       | $53.436 | $1,000 | $100 | $54,536 |
| Total | 6 | 20 | 0 | 56 | 96 | 172 | 20 | 20 | 390 |                       | $53.436 | $1,000 | $100 | $54,536 |

$149,902
FEE SCHEDULE

<table>
<thead>
<tr>
<th>Personnel Category</th>
<th>Hourly Billing Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Staff Professional – Grade 1</td>
<td>$ 98</td>
</tr>
<tr>
<td>Staff Professional – Grade 2</td>
<td>$ 108</td>
</tr>
<tr>
<td>Project Professional – Grade 3</td>
<td>$ 118</td>
</tr>
<tr>
<td>Project Professional – Grade 4</td>
<td>$ 133</td>
</tr>
<tr>
<td>Senior Professional – Grade 5</td>
<td>$ 157</td>
</tr>
<tr>
<td>Senior Professional – Grade 6</td>
<td>$ 179</td>
</tr>
<tr>
<td>Senior Professional – Grade 7</td>
<td>$ 212</td>
</tr>
<tr>
<td>Senior Consultant – Grade 8</td>
<td>$ 239</td>
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<tr>
<td>Senior Consultant – Grade 9</td>
<td>$ 284</td>
</tr>
<tr>
<td>Senior Principal – Grade 10</td>
<td>$ 284</td>
</tr>
<tr>
<td>Senior CADD Drafter and Designer</td>
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</tr>
<tr>
<td>CADD Drafter / Designer and Senior Technician</td>
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</tr>
<tr>
<td>Technician, Word Processor, Administrative Staff</td>
<td>$ 88</td>
</tr>
<tr>
<td>Office Aide</td>
<td>$ 69</td>
</tr>
</tbody>
</table>

These rates are billed for both regular and overtime hours in all categories. Rates will increase up to 5% annually, at GEI’s option, for all contracts that extend beyond twelve (12) months after the date of the contract.

OTHER PROJECT COSTS

Subconsultants, Subcontractors and Other Project Expenses - All costs for subconsultants, subcontractors and other project expenses will be billed at cost plus a 10% service charge. Examples of such expenses ordinarily charged to projects are subconsultants; subconsultants: chemical laboratory charges; rented or leased field and laboratory equipment; outside printing and reproduction; communications and mailing charges; reproduction expenses; shipping costs for samples and equipment; disposal of samples; rental vehicles; fares for travel on public carriers; special fees for insurance certificates, permits, licenses, etc.; fees for restoration of paving or land due to field exploration, etc.; state sales and use taxes and state taxes on GEI fees.

Billing Rates for Specialized Technical Computer Programs – Computer usage for specialized technical programs will be billed at a flat rate of $10.00 per hour in addition to the labor required to operate the computer.

Field and Laboratory Equipment Billing Rates – GEI-owned field and laboratory equipment such as pumps, sampling equipment, monitoring instrumentation, field density equipment, portable gas chromatographs, etc. will be billed at a daily, weekly, or monthly rate, as needed for the project. Expendable supplies are billed at a unit rate.

Transportation and Subsistence - Automobile expenses for GEI or employee owned cars will be charged at the rate per mile set by the Internal Revenue Service for tax purposes plus tolls and parking charges or at a day rate negotiated for each project. When required for a project, four-wheel drive vehicles owned by GEI or the employees will be billed at a daily rate appropriate for those vehicles. Per diem living costs for personnel on assignment away from their home office will be negotiated for each project.

PAYMENT TERMS

Invoices will be submitted monthly or upon completion of a specified scope of service, as described in the accompanying contract (proposal, project, or agreement document that is signed and dated by GEI and CLIENT).

Payment is due upon receipt of the invoice. Interest will accrue at the rate of 1% of the invoice amount per month, for amounts that remain unpaid more than 30 days after the invoice date. All payments will be made by either check or electronic transfer to the address specified by GEI and will include reference to GEI’s invoice number.

Fee Schedule 2013
AMENDMENT NO. 19

AGREEMENT FOR PROFESSIONAL SERVICES
FOR
PHASE 4 FEATHER RIVER LEVEE REPAIRS
BETWEEN
THREE RIVERS LEVEE IMPROVEMENT AUTHORITY AND
BOOKMAN-EDMONSTON/GEI CONSULTANTS

THIS 19th AMENDMENT TO AGREEMENT is made effective ____________,
by and between Three Rivers Levee Improvement Authority ("TRLIA") and Bookman-
Edmonston/GEI Consultants, a division of GEI Consultants, Inc. ("Contractor"), who
agree as follows:

1. Recitals. This Amendment is made with reference to the following background
recitals:

1.1. Effective December 13, 2005, the parties entered into the Agreement for
Professional Services relating to TRLIA’s Phase 4 Feather River Levee
project with a contract value of $1,439,400.

1.2. Effective April 25, 2006, the parties entered into Amendment No. 1 to the
Agreement for Professional Services relating to TRLIA’s Phase 4 Feather
River Levee Repair design in the amount of $3,082,240 for a total contract
value of $4,521,640.

1.3. Effective June 27, 2006, the parties entered into Amendment No. 2 to the
Agreement for Professional Services relating to TRLIA’s Phase 4 Feather
River Levee Repair design in the amount of $32,700 for a total contract value
of $4,554,340.

1.4. Effective October 30, 2006, the parties entered into Amendment No. 3 to the
Agreement for Professional Services relating to TRLIA’s Phase 4 Feather
River Levee Repair design in the amount of $262,500 for a total contract
value of $4,816,840.

1.5. Effective January 16, 2007, the parties entered into Amendment No. 4 to the
Agreement for Professional Services relating to TRLIA’s Phase 4 Feather
River Levee Repair design in the amount of $115,000 for a total contract
value of $4,931,840.

1.6. Effective April 3, 2007, the parties entered into Amendment No. 5 to the
Agreement for Professional Services relating to TRLIA’s Phase 4 Feather
River Setback Levee design in the amount of $5,860,244 for a total contract
value of $10,792,084.

1.7. Effective September 18, 2007, the parties entered into Amendment No. 6 to
the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather
River Setback Levee design in the amount of $1,963,660 for a total contract
value of $12,755,744.
1.8. Effective April 15, 2008, the parties entered into Amendment No. 7 to the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather River Setback Levee design in the amount of $636,300 for a total contract value of $13,392,044.

1.9. Effective June 17, 2008, the parties entered into Amendment No. 8 to the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather River Setback Levee design in the amount of $5,671,000 for a total contract value of $19,063,044.

1.10. Effective September 8, 2008, the parties entered into Amendment No. 9 to the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather River Setback Levee design in the amount of $358,200 for a total contract value of $19,421,244.

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1.20. The parties now desire to amend the Professional Services Agreement to add additional tasks and increase the contract budget.

2. Nineteenth 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 B-E/GEI, dated December 13, 2005) is amended to expand the scope of work as described by letter dated June 15, 2016 (Exhibit A) to address additional tasks for Urban Levee Certification.

2.2. The payment, budget, and not-to-exceed amounts (Professional Services Agreement Attachment B) are amended by the attached Exhibit A to include the additional amount of $149,902 for a total contract of $23,660,515.

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

THREE RIVERS LEVEE IMPROVEMENT AUTHORITY OF YUBA COUNTY

BOOKMAN-EDMONSTON, A DIVISION OF GEI CONSULTANTS, INC.

Paul G. Brunner
Executive Director

Stephen Verigin
Senior Vice President

ATTEST:
DONNA STOTTERMeyer
SECRETARY, THREE RIVERS

APPROVED AS TO FORM:
ANDREA P. CLARK
GENERAL COUNSEL, TRLIA
June 21, 2016

TO: Three Rivers Levee Improvement Authority Board
FROM: Paul Brunner, Executive Director

SUBJECT: Approve Amendment 19 to the existing GEI Contract for additional Professional Services

Recommended Action:
Approve Amendment 19 to the existing contract with GEI for additional Professional Services, to provide pre-construction, construction, and post construction biological monitoring for the WPIC the Western Pacific Interceptor Canal (WPIC) 200-Year Standard Project, and authorize the Executive Director to negotiate, sign and execute the final amendment upon review by General Counsel.

Discussion
Biological monitoring and reporting before, during, and after construction of the WPIC Project is required as part of the commitments made by TRLIA in the Final IS/MND, Mitigation and Monitoring Plan, and as required by environmental permits received from the regulating agencies. This work was previously included in the scope and budget of Amendments 8 and 11 of the Professional Services Agreement with AECOM Technical Services Inc. However, since the previous amendments to the AECOM were executed, unanticipated work has been necessary to complete CEQA compliance and secure environmental permits for the project. As a result, the funds intended for construction-related biological services were expended to cover these tasks and additional funds are necessary to perform the biological construction monitoring and reporting work.

A future amendment may be required to support Native American monitoring during construction. However, at this time, the intention is to use funds provided in GEI Amendment 18 to cover these expenses to the extent possible.

Fiscal Impact
This amendment would increase the GEI contract by an amount not to exceed $149,902 for services on a time and expenses basis, which brings the GEI contract amount to $23,660,515. The work would be accomplished using State funds (70% state share) via the UYLP EIP funding agreement.

Attachments
1. GEI Amendment 19 Scope of Work, Letter dated June 15, 2016
2. GEI 19th Contract Amendment
June 15, 2016

Mr. Paul Brunner, Executive Director
Three Rivers Levee Improvement Authority
1114 Yuba Street, Suite 218
Marysville, CA 95901

Re: Agreement for Professional Services on Three Rivers Levee Improvement Authority’s Phase 4 Feather River Levee Repair Project Contract – Request for Amendment No. 19 (WPIC Continuing Environmental Services through 2019)

Dear Mr. Brunner:

In follow up to recent conversations between Phil Dunn and yourself, the purpose of this letter is to present a proposed scope of work and budget to complete environmental support of TRLIA’s Western Pacific Interceptor Canal 200-Year Standard Project. The environmental tasks described below include those required to complete all environmental mitigation, monitoring, and reporting requirements during and after project construction. These tasks are a continuation of those currently being implemented by GEI and AECOM staff under the existing agreement between TRLIA and AECOM.

Since the previous amendments to the AECOM scope of services were developed, additional unanticipated work has been necessary to complete CEQA compliance, secure all environmental permits required for the project, and facilitate compensatory mitigation for air quality and biological resource impacts. As a result, some funds intended for construction-related biological services were expended to cover these unanticipated tasks and keep the project on schedule, and additional funds are necessary to complete the biological construction monitoring and reporting requirements and fulfill post-construction biological monitoring and reporting.

The cost estimates for these tasks are included in Attachment 1. In summary, we estimate that a net budget increase of $149,902 is needed to complete the tasks described below, which will be implemented by GEI, with support from AECOM. These tasks will be managed by Anne King in our Rancho Cordova office under Phil’s supervision. GEI has estimated the work and budget required through December 2019, when all permit requirements are expected to have been met.

The following scope of services includes additional funds for Tasks 6 and 7, as described in the previous AECOM scopes of services. Task 9 describes new services.
Task 6: Project Management

Implementing services described in this amendment requires time for associated management activities, including maintaining close communication with TRLIA and other project team members, attending meetings and calls, managing environmental schedules and budgets, reviewing products prepared by other project team members (as needed), and ensuring proper QA/QC of GEI deliverables.

Task 7: Construction-Related Biological Services

GEI will provide oversite of biological services associated with project construction. Field staff will be provided by GEI and AECOM. GEI and AECOM biologists will coordinate closely with the HDR construction manager and the construction contractor regarding proper installation, monitoring, and maintenance of avoidance and minimization measures. Biologists will conduct regular monitoring visits to verify implementation of biological resource protection measures throughout the construction period. A monitoring biologist will be onsite daily during initial ground-disturbing activities (installing avoidance and minimization measures and clearing, grubbing, and stripping) and will conduct weekly monitoring visits after initial ground disturbance is complete. This scope assumes initial ground disturbance will be completed in a maximum of 30 days. GEI will document monitoring efforts in memoranda and/or letter reports, in compliance with environmental permit conditions. Draft reports will be provided electronically to TRLIA for review, and any necessary revisions will be made before final reports are submitted electronically to resource agencies.

Deliverables:
- Five monthly draft and final compliance reports (July, August, September, November, and December 2016)
- Annual draft and final compliance report (October 2016)
- Draft and final project completion report (January 2017)

Task 9: Post-Construction Biological Monitoring and Reporting

GEI will complete post-construction monitoring and reporting necessary to comply with environmental permit requirements. This includes monitoring potential giant garter snake upland habitat that is disturbed during project construction and revegetated with native seed mix following construction. Permits require that all restored habitat be monitored for 3 years following restoration to determine the success of the revegetation efforts. Monitoring efforts will document success of natural revegetation establishment, survival, and percent cover. In addition, GEI will assess inundation of vernal pool crustacean habitat adjacent to the construction area to confirm project implementation does not adversely affect the hydrology of the habitat and render it unsuitable. GEI will prepare annual reports describing methods and results of monitoring efforts. Draft reports will be provided electronically to TRLIA for review and any necessary revisions will be made before final reports are submitted electronically to resource agencies.
Deliverables:
- Three annual draft and final post-construction monitoring reports

Key Assumptions:
- Only one field monitoring visit will be required each year
- Vernal pool crustacean habitat inundation can be determined within the 3-year monitoring period (may not be feasible if drought conditions affect inundation)

Consistent with the approach for Amendment 18, GEI has agreed to use 2013 billing rates for this work. The billing rates are included in Attachment 2.

The scope and budget adjustments contained herein represent our best estimate at this time to perform the activities discussed above. In the event that an unforeseen task not included in this scope of work exceeds the hours provided in the scope and budget, GEI will communicate the changes to TRLIA and develop a scope and budget for the additional work. With this said, we strive to conduct our work as efficiently as possible. We will manage our efforts and strive to keep actual costs under the approved budget.

We are pleased with the opportunity to continue working with you and your staff on this vitally important project. Please call me, Phil Dunn at 916-341-9127, or Dan Wanket at 510-350-2916 if you have any questions.

Sincerely,
GEI Consultants,

[Signature]

Alberto Pujol, P.E., G.E.
Project Manager

Attachments 1 and 2

CC: Claire Marie Turner and Ric Reinhardt (MBK Engineers)
    Dan Wanket, Phil Dunn, and Anne King (GEI Consultants)
# Attachment 1

## Cost Estimate Table

### Table 1

Three Rivers Levee Improvement Authority  
GEI Cost Estimate - Amendment No. 19  
6/13/2016

<table>
<thead>
<tr>
<th>Work Item</th>
<th>Estimated Cost for Out-of-Scope Items</th>
<th>Comments/ Assumptions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GEI Costs (2013 Rate Schedule)</td>
<td>Total</td>
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<tr>
<td></td>
<td>Hours</td>
<td>Rate</td>
</tr>
<tr>
<td>Task 6: Project Management</td>
<td>80</td>
<td>14,800</td>
</tr>
<tr>
<td>Task 7: Construction-Related Biological Services</td>
<td>506</td>
<td>79,466</td>
</tr>
<tr>
<td>Task 9: Post-Construction Monitoring and Reporting</td>
<td>390</td>
<td>53,436</td>
</tr>
</tbody>
</table>

Total Estimated Cost $149,902

### Table 2

Three Rivers Levee Improvement Authority  
GEI Cost Estimate Detail for Amendment No. 19  
6/13/2016

<table>
<thead>
<tr>
<th>Item</th>
<th>Project Director Gr 9</th>
<th>Project Manager Gr 8</th>
<th>Wetland Specialist Gr 6</th>
<th>Restoration Ecologist Gr 6</th>
<th>Restoration Ecologist Gr 5</th>
<th>Biologist Gr 2</th>
<th>GIS Gr 4</th>
<th>Admin (WP, Graphics, Editing)</th>
<th>GEI Est. LOE</th>
<th>Estimated Cost</th>
<th>Labor Cost (2013 rates)</th>
<th>ODC’s Markup</th>
<th>ODC’s 10% Markup</th>
<th>Total Estimate Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Task 6: Project Management</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Project Management</td>
<td>20</td>
<td>40</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<td>0</td>
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<td>0</td>
<td>20</td>
<td>14,800</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td>14,800</td>
<td></td>
</tr>
</tbody>
</table>

| Task 7: Construction-Related Biological Services | 16 | 260 | 30 | 0 | 0 | 110 | 60 | 34 | 506 | $79,466 | $1,000 | $100 | $80,566 |
| Total | 16 | 260 | 30 | 0 | 0 | 110 | 60 | 34 | 506 | $79,466 | $1,000 | $100 | $80,566 |

| Task 9: Post-Construction Biological Monitoring and Reporting | 6 | 20 | 0 | 56 | 96 | 172 | 20 | 20 | 390 | $53,436 | $1,000 | $100 | $54,536 |
| Total | 6 | 20 | 0 | 56 | 96 | 172 | 20 | 20 | 390 | $53,436 | $1,000 | $100 | $54,536 |

$149,902
## FEE SCHEDULE

<table>
<thead>
<tr>
<th>Personnel Category</th>
<th>Hourly Billing Rate $ per hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Staff Professional – Grade 1</td>
<td>$ 98</td>
</tr>
<tr>
<td>Staff Professional – Grade 2</td>
<td>$ 108</td>
</tr>
<tr>
<td>Project Professional – Grade 3</td>
<td>$ 118</td>
</tr>
<tr>
<td>Project Professional – Grade 4</td>
<td>$ 133</td>
</tr>
<tr>
<td>Senior Professional – Grade 5</td>
<td>$ 157</td>
</tr>
<tr>
<td>Senior Professional – Grade 6</td>
<td>$ 179</td>
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<tr>
<td>Senior Professional – Grade 7</td>
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<tr>
<td>Senior Consultant – Grade 8</td>
<td>$ 239</td>
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<tr>
<td>Senior Consultant – Grade 9</td>
<td>$ 294</td>
</tr>
<tr>
<td>Senior Principal – Grade 10</td>
<td>$ 294</td>
</tr>
<tr>
<td>Senior CADD Drafter and Designer</td>
<td>$ 118</td>
</tr>
<tr>
<td>CADD Drafter / Designer and Senior Technician</td>
<td>$ 108</td>
</tr>
<tr>
<td>Technician, Word Processor, Administrative Staff</td>
<td>$ 88</td>
</tr>
<tr>
<td>Office Aide</td>
<td>$ 69</td>
</tr>
</tbody>
</table>

These rates are billed for both regular and overtime hours in all categories. Rates will increase up to 5% annually, at GEI’s option, for all contracts that extend beyond twelve (12) months after the date of the contract.

## OTHER PROJECT COSTS

Subconsultants, Subcontractors and Other Project Expenses - All costs for subconsultants, subcontractors and other project expenses will be billed at cost plus a 15% service charge. Examples of such expenses ordinarily charged to projects are subconsultants; subconsultants: chemical laboratory charges; rented or leased field and laboratory equipment; outside printing and reproduction; communications and mailing charges; reproduction expenses; shipping costs for samples and equipment; disposal of samples; rental vehicles; fares for travel on public carriers; special fees for insurance certificates, permits, licenses, etc.; fees for restoration of paving or land due to field exploration, etc.; state sales and use taxes and state taxes on GEI fees.

Billing Rates for Specialized Technical Computer Programs – Computer usage for specialized technical programs will be billed at a flat rate of $10.00 per hour in addition to the labor required to operate the computer.

Field and Laboratory Equipment Billing Rates – GEI-owned field and laboratory equipment such as pumps, sampling equipment, monitoring instrumentation, field density equipment, portable gas chromatographs, etc. will be billed at a daily, weekly, or monthly rate, as needed for the project. Expendable supplies are billed at a unit rate.

Transportation and Subsistence - Automobile expenses for GEI or employee owned cars will be charged at the rate per mile set by the Internal Revenue Service for tax purposes plus tolls and parking charges or at a day rate negotiated for each project. When required for a project, four-wheel drive vehicles owned by GEI or the employees will be billed at a daily rate appropriate for those vehicles. Per diem living costs for personnel on assignment away from their home office will be negotiated for each project.

## PAYMENT TERMS

Invoices will be submitted monthly or upon completion of a specified scope of service, as described in the accompanying contract (proposal, project, or agreement document that is signed and dated by GEI and CLIENT).

Payment is due upon receipt of the invoice. Interest will accrue at the rate of 1% of the invoice amount per month, for amounts that remain unpaid more than 30 days after the invoice date. All payments will be made by either check or electronic transfer to the address specified by GEI and will include reference to GEI’s invoice number.
AMENDMENT NO. 19  
AGREEMENT FOR PROFESSIONAL SERVICES  
FOR  
PHASE 4 FEATHER RIVER LEVEE REPAIRS  
BETWEEN  
THREE RIVERS LEVEE IMPROVEMENT AUTHORITY AND BOOKMAN-EDMONSTON/GEI CONSULTANTS  

THIS 19th AMENDMENT TO AGREEMENT is made effective ____________, by and between Three Rivers Levee Improvement Authority ("TRLIA") and Bookman-Edmonston/GEI Consultants, a division of GEI Consultants, Inc. ("Contractor"), who agree as follows:

1. Recitals. This Amendment is made with reference to the following background recitals:

1.1. Effective December 13, 2005, the parties entered into the Agreement for Professional Services relating to TRLIA's Phase 4 Feather River Levee project with a contract value of $1,439,400.

1.2. Effective April 25, 2006, the parties entered into Amendment No. 1 to the Agreement for Professional Services relating to TRLIA's Phase 4 Feather River Levee Repair design in the amount of $3,082,240 for a total contract value of $4,521,640.

1.3. Effective June 27, 2006, the parties entered into Amendment No. 2 to the Agreement for Professional Services relating to TRLIA's Phase 4 Feather River Levee Repair design in the amount of $32,700 for a total contract value of $4,554,340.

1.4. Effective October 30, 2006, the parties entered into Amendment No. 3 to the Agreement for Professional Services relating to TRLIA's Phase 4 Feather River Levee Repair design in the amount of $262,500 for a total contract value of $4,816,840.

1.5. Effective January 16, 2007, the parties entered into Amendment No. 4 to the Agreement for Professional Services relating to TRLIA's Phase 4 Feather River Levee Repair design in the amount of $115,000 for a total contract value of $4,931,840.

1.6. Effective April 3, 2007, the parties entered into Amendment No. 5 to the Agreement for Professional Services relating to TRLIA's Phase 4 Feather River Setback Levee design in the amount of $5,860,244 for a total contract value of $10,792,084.

1.7. Effective September 18, 2007, the parties entered into Amendment No. 6 to the Agreement for Professional Services relating to TRLIA's Phase 4 Feather River Setback Levee design in the amount of $1,963,660 for a total contract value of $12,755,744.
1.8. Effective April 15, 2008, the parties entered into Amendment No. 7 to the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather River Setback Levee design in the amount of $636,300 for a total contract value of $13,392,044.

1.9. Effective June 17, 2008, the parties entered into Amendment No. 8 to the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather River Setback Levee design in the amount of $5,671,000 for a total contract value of $19,063,044.

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