



# KING COUNTY

1200 King County Courthouse  
516 Third Avenue  
Seattle, WA 98104

## Signature Report

### FCD Resolution

**Proposed No.** FCD2019-12.2

**Sponsors**

1                   A RESOLUTION authorizing the chair to enter into a  
2                   contract for professional services to prepare a  
3                   programmatic environmental impact statement on the  
4                   Lower Green River Corridor Plan.

5                   WHEREAS, King County Flood Control (District) Resolution 2016-05.2  
6                   expressed the District's desire to move forward with a Lower Green River Corridor Plan  
7                   and State Environmental Policy Act programmatic environmental impact statement; now,  
8                   therefore

9                   BE IT RESOLVED BY THE BOARD OF SUPERVISORS OF THE KING  
10                  COUNTY FLOOD DISTRICT:

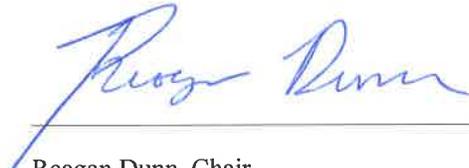
11                  SECTION 1. The chair of the King County Flood Control District is authorized to  
12                  enter into an agreement with Parametrix, Inc. for professional environmental impact

13 statement preparation services to the District. The contract is contained in Attachment A  
14 to this resolution.  
15

FCD Resolution was introduced on and passed as amended by the King County Flood Control District on 11/6/2019, by the following vote:

Yes: 9 - Mr. von Reichbauer, Mr. Gossett, Ms. Lambert, Mr. Dunn, Mr. McDermott, Mr. Dembowski, Mr. Upthegrove, Ms. Kohl-Welles and Ms. Balducci

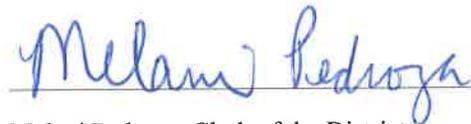
KING COUNTY FLOOD CONTROL ZONE  
DISTRICT  
KING COUNTY, WASHINGTON



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Reagan Dunn, Chair

ATTEST:



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Melani Pedroza, Clerk of the District

**Attachments:** A. Contract for Consultant Services King County Flood Control Zone District

**CONTRACT FOR CONSULTANT SERVICES  
KING COUNTY FLOOD CONTROL ZONE DISTRICT**

This Contract is entered into by and between the King County Flood Control Zone District, a municipal corporation (“District”) and Parametrix, Inc., whose principal office is located at 719 2<sup>nd</sup> Avenue, Suite 200, Seattle, WA 98104 (“Consultant”).

WHEREAS, the District desires to have certain services performed for its citizens; and

WHEREAS, the District has selected the Consultant to perform such services pursuant to certain terms and conditions;

NOW, THEREFORE, in consideration of the mutual benefits and conditions set forth below, the parties agree as follows:

1. Scope of Services to be Performed by Consultant. The Consultant shall perform the services described in Exhibit “A” of this Contract. In performing the services, the Consultant shall comply with all federal, state and local laws and regulations applicable to the services. The Consultant shall perform the services diligently and completely and in accordance with professional standards of conduct and performance.

2. Compensation and Method of Payment. The Consultant shall request payment for work performed using the billing invoice form at Exhibit “C.”

The District shall pay the Consultant:

[Check applicable method of payment]

According to the rates set forth in Exhibit “B.”

A sum not to exceed \$1,226,426.82

Other (describe):

The Consultant shall complete and return to the District Exhibit “D,” Tax Identification Number, prior to or along with the first billing invoice. The District shall pay the Consultant for services rendered within ten (10) days after Board voucher approval.

3. Duration of Contract. This Contract shall be in full force and effect for a period commencing on November 7, 2019 and ending August 30, 2020, unless sooner terminated or extended under the provisions of this Contract. Time is of the essence of this Contract in each and all of its provisions in which performance is required.

4. Ownership and Use of Documents. Any records, files, documents, drawings, specifications, data or information, regardless of form or format, and all other materials produced by the Consultant in connection with the services provided to the District, shall be the property of the District whether the project for which they were created is executed or not.

5. Independent Contractor. The Consultant and the District agree that the Consultant is an independent contractor with respect to the services provided pursuant to this Contract. The Consultant will be solely responsible for its acts and for the acts of its officers, officials, employees, sub-consultants and agents during the performance of this Contract. Nothing in this Contract shall be considered to create the relationship of employer and employee between the parties.

6. Indemnification. The Consultant shall defend, indemnify, and hold the District and its officers and employees harmless from all claims, demands, or suits at law or equity arising in whole or in part from the negligence of, or the breach of any obligation under this Agreement by, the Consultant or the Consultant's agents, employees, sub consultants, subcontractors or vendors, of any tier, or any other persons for whom the Consultant may be legally liable; provided that nothing herein shall require a Consultant to defend or indemnify the District and its officers and employees against and hold harmless the District and its officers and employees from claims, demands or suits based solely upon the negligence of, or breach of any obligation under this Agreement by the District, its agents, officers, employees, sub-consultants, subcontractors or vendors, of any tier, or any other persons for whom the District may be legally liable; and provided further that if the claims or suits are caused by or result from the concurrent negligence of (a) the Consultant or the Consultant's agents, employees, sub-consultants, subcontractors or vendors, of any tier, or any other persons for whom the Consultant is legally liable, and (b) the District, its agents, officers, employees, sub-consultants, subcontractors and or vendors, of any tier, or any other persons for whom the District may be legally liable, the defense and indemnity obligation shall be valid and enforceable only to the extent of the Consultant's negligence or the negligence of the Consultant's agents, employees, sub-consultants, subcontractors or vendors, of any tier, or any other persons for whom the Consultant may be legally liable. This provision shall be included in any Agreement between Consultant and any sub-consultant, subcontractor and vendor, of any tier. The foregoing indemnity is specifically and expressly intended to constitute the Consultant's waiver of immunity under Industrial Insurance, Title 51 RCW, solely for the purposes of this indemnification. This waiver has been mutually negotiated. The provisions of this Section shall survive the expiration or termination of this Contract.

7. Insurance. The Consultant shall procure and maintain for the duration of this Contract, insurance against claims for injuries to persons or damage to property which may arise from or in connection with the performance of the work hereunder by the Consultant, its officers, officials, employees, and agents.

A. Minimum Scope of Insurance. The Consultant shall obtain insurance of the types described below:

1. Automobile Liability insurance covering all owned, non-owned, hired, and leased vehicles. Coverage shall be written on Insurance Services Office (ISO) form CA 00 01 or a substitute form providing equivalent liability coverage. If necessary, the policy shall be endorsed to provide contractual liability coverage.

2. Commercial General Liability insurance shall be written on ISO occurrence form CG 00 01 and shall cover liability arising from premises, operations, independent contractors, and personal injury and advertising injury. The District shall be named as an insured under the Consultant's Commercial General Liability insurance policy with respect to the work performed for the District.

3. Workers' Compensation coverage as required by the Industrial Insurance laws of the State of Washington.

4. Professional Liability insurance appropriate to the Consultant's profession.

B. Minimum Amounts of Insurance. The Consultant shall maintain the following insurance limits:

1. Automobile Liability insurance with a minimum combined single limit for bodily injury and property damage of \$1,000,000 per accident.

2. Commercial General Liability insurance shall be written with limits no less than \$1,000,000 each occurrence, \$2,000,000 general aggregate.

3. Professional Liability insurance shall be written with limits no less than \$1,000,000 per claim and \$1,000,000 policy aggregate limit.

C. Other Insurance Provisions. The insurance policies are to contain, or be endorsed to contain, the following provisions for Automobile Liability, Professional Liability, and Commercial General Liability insurance:

1. The Consultant's insurance coverage shall be primary insurance as respects the District. Any insurance, self-insurance or insurance pool coverage maintained by the District shall be in excess of the Consultant's insurance and shall not contribute with it.

2. The Consultant's insurance shall be endorsed to state that coverage shall not be canceled by either party except after thirty (30) days prior written notice by certified mail, return receipt requested, has been given to the District.

D. Verification of Coverage. The Consultant shall furnish the District with original certificates and a copy of the amendatory endorsements, including but not necessarily limited to the additional insured endorsement, evidencing the insurance requirements of the Consultant before commencement of the work.

8. Record Keeping and Reporting.

A. The Consultant shall maintain accounts and records, including personnel, property, financial, and programmatic records, which sufficiently and properly reflect all direct and indirect costs of any nature expended and services performed pursuant to this Contract. The Consultant shall also maintain such other records as may be deemed necessary by the District to ensure proper accounting of all funds contributed by the District to the performance of this Contract.

B. The foregoing records shall be maintained for a period of seven (7) years after termination of this Contract, unless permission to destroy them is granted by the Office of the Archivist in accordance with Chapter 40.14 RCW and by the District.

9. Audits and Inspections. The records and documents with respect to all matters covered by this Contract shall be subject at all times to inspection, review or audit by the District during the performance of this Contract.

10. Termination.

A. The District reserves the right to terminate or suspend this Contract at any time, with or without cause, upon ten (10) business days prior written notice. In the event of termination or suspension, all finished or unfinished documents, data, studies, worksheets, models, reports or other materials prepared by the Consultant pursuant to this Contract shall promptly be submitted to the District.

B. In the event this Contract is terminated or suspended, the Consultant shall be entitled to payment for all services performed and reimbursable expenses incurred to the date of termination.

C. This Contract may be canceled immediately if the Consultant's insurance coverage is canceled for any reason, or if the Consultant is unable to perform the services called for by this Contract.

D. The Consultant reserves the right to terminate this Contract with not less than ten (10) business days written notice, or in the event that outstanding invoices are not paid within sixty (60) days.

E. This provision shall not prevent the District from seeking any legal remedies it may otherwise have for the violation or nonperformance of any provisions of this Contract.

11. Discrimination Prohibited. The Consultant shall not discriminate against any employee, applicant for employment, or any person seeking the services of the Consultant under this Contract, on the basis of race, color, religion, creed, sex, sexual orientation, age, national origin, marital status, or presence of any sensory, mental or physical disability.

12. Assignment and Subcontract. The Consultant shall not assign or subcontract any portion of the services contemplated by this Contract without the prior written consent of the District.

13. Conflict of Interest. The Consultant represents to the District that it has no conflict of interest in performing any of the services set forth in Exhibit "A." In the event that the Consultant is asked to perform services for a project with which it may have a conflict, Consultant will immediately disclose such conflict to the District.

14. Confidentiality. All information regarding the District obtained by the Consultant in performance of this Contract shall be considered confidential. Breach of confidentiality by the Consultant shall be grounds for immediate termination.

15. Non-appropriation of Funds. If sufficient funds are not appropriated or allocated for payment under this Contract for any future fiscal period, the District will so notify the Consultant and shall not be obligated to make payments for services or amounts incurred after the end of the current fiscal period. This Contract will terminate upon the completion of all remaining services for which funds are allocated. No penalty or expense shall accrue to the District in the event that the terms of the provision are effectuated.

16. Entire Contract. This Contract contains the entire agreement between the parties, and no other agreements, oral or otherwise, regarding the subject matter of this Contract shall be deemed to exist or bind either of the parties. Either party may request changes to the Contract. Changes which are mutually agreed upon shall be incorporated by written amendments to this Contract.

17. Notices. Notices to the District shall be sent to the following address:

Michelle Clark, Executive Director  
516 Third Avenue, Room 1200, W-1201  
Seattle, WA 98104  
206-477-2985  
Michelle.Clark@kingcounty.gov

Notices to the Consultant shall be sent to the following address:

Jeff Peacock, President and CEO  
719 2nd Avenue, Suite 200  
Seattle, WA 98104  
206-394-3700

JPeacock@parametrix.com

18. Applicable Law; Venue; Attorneys' Fees. This Contract shall be governed by and construed in accordance with the laws of the State of Washington. In the event any suit, arbitration or other proceeding is instituted to enforce any term of this Contract, the parties specifically understand and agree that venue shall be exclusively in King County, Washington. The prevailing party in any such action shall be entitled to its attorneys' fees and costs of suit, which shall be fixed by the judge hearing the case and such fee shall be included in the judgment.

19. Severability. Any provision or part of this Contract held to be void or unenforceable under any law or regulation shall be deemed stricken and all remaining provisions shall continue to be valid and binding upon the District and the Consultant, who agree that the Contract shall be reformed to replace such stricken provision or part with a valid and enforceable provision that comes as close as reasonably possible to expressing the intent of the stricken provision.

KING COUNTY FLOOD  
CONTROL ZONE DISTRICT



Reagan Dunn, Chair  
King County Flood Control Zone District

CONSULTANT



Jeff Peacock, President & CEO  
Parametrix, Inc.



- Monthly invoice packages in a format as specified by the District
- Written notes from weekly strategy meetings or calls distributed to the project team for concurrence

**EXHIBIT C**  
**KING COUNTY FLOOD CONTROL ZONE DISTRICT BILLING INVOICE**

To: King County Flood Control Zone District  
 Michelle Clark, Executive Director  
 516 Third Avenue, Room 1200, W-1201  
 Seattle, WA 98104  
 Phone: (206) 477-2985  
 michelle.clark@kingcounty.gov

Invoice Number: \_\_\_\_\_ Date of Invoice: \_\_\_\_\_

Consultant: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Telephone: (    ). \_\_\_\_\_

Contract Period: \_\_\_\_\_ Reporting Period: \_\_\_\_\_

Amount requested this invoice: \$ \_\_\_\_\_

Attach itemized description of services provided.

Specific Program: \_\_\_\_\_

\_\_\_\_\_  
 Authorized signature

*For District Use Only*

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**BUDGET SUMMARY**

Total contract amount	\$ _____
Previous payments	\$ _____
Current request	\$ _____
Balance remaining	\$ _____

Approved for Payment by: \_\_\_\_\_ Date: \_\_\_\_\_

EXHIBIT D  
KING COUNTY FLOOD CONTROL ZONE DISTRICT  
Michelle Clark, Executive Director  
516 Third Avenue, Room 1200, W-1201  
Seattle, WA 98104  
Phone: (206) 477-2985  
[michelle.clark@kingcounty.gov](mailto:michelle.clark@kingcounty.gov)

TAX IDENTIFICATION NUMBER

In order for you to receive payment from the King County Flood Control Zone District (“District”), the consultant must have either a Tax Identification Number or a Social Security Number. The Internal Revenue Service Code requires a Form 1099 for payments to every person or organization other than a corporation for services performed in the course of trade or business. Further, the law requires the District to withhold 20% on reportable amounts paid to unincorporated persons who have not supplied us with their correct Tax Identification Number or Social Security Number. Please complete the following information request form and return it to the District prior to or along with the submittal of the first billing invoice.

Please complete the following information request form and return it to the District prior to or along with the submittal of the first billing invoice.

Please check the appropriate category:

Corporation     Partnership     Government Consultant  
 Individual/Proprietor     Other (explain)

TIN No.: \_\_\_\_\_  
Social Security No.: \_\_\_\_\_  
Print Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Business Name: \_\_\_\_\_  
Business Address: \_\_\_\_\_  
Business Phone: \_\_\_\_\_  
Date: \_\_\_\_\_

## SCOPE OF WORK EXHIBIT A

### King County Flood District Green River Corridor Flood Hazard Management Plan Programmatic Environmental Impact Statement

#### PROJECT UNDERSTANDING

The King County Flood Control District (District) is preparing a SEPA Programmatic Environmental Impact Statement (PEIS) for the Green River Corridor Flood Hazard Management Plan. The intent of the services described below is to help the District determine revisions or additions to alternatives considered in the PEIS, to develop discipline-specific methodologies for evaluating the potential impacts that may result from these alternatives, to gather information on the affected environment and existing conditions, and to provide policy and communications support during this process.

#### Task 2 – Alternatives, Methodologies, and Affected Environment

The purpose of this task is to provide services prerequisite to preparation of the PEIS. All deliverables identified for this task will be submitted electronically, unless otherwise specified.

#### Task 2.1 – Project Management

The Consultant will update the brief Project Management Plan (PMP) that supplements the details necessary for this phase of services. For example, additional subconsultants will be providing services, requiring additional coordination and communication. The Consultant will:

- Prepare a schedule and update the schedule once during this phase of services.
- Manage delivery of services, including subconsultant work, within approved budget and schedule.
- Prepare monthly invoices that include a progress letter summarizing completed and upcoming work and status to budget and schedule.
- Participate in weekly strategy meetings or conference calls through this phase.
- Maintain project records.

#### Assumptions

- Previously authorized services included project management for 4 months (March to June 2019). These services encompass an additional 10 months (through August 2020).
- Milestone schedule will be prepared using Microsoft Project.
- There will be 35 weekly meetings/calls with an average of 1.5 consultant staff participating. Each meeting will be 30 minutes in duration with 30 minutes follow up for notes (1 hour total).

#### Deliverables

- Draft and final milestone schedule

- Draft and final PMP update
- Monthly invoice packages in a format as specified by the District
- Written notes from weekly strategy meetings or calls distributed to the project team for concurrence

### Task 2.2 – Scoping Comment Tracking

The Consultant will prepare a spreadsheet for internal use by the project team and the district. As a starting point, the Consultant will use the comment catalog prepared for the Scoping Summary Report. The purpose of the spreadsheet will be to ensure that comments are considered in determining revisions or additions to alternatives and methodologies for evaluating impacts.

#### Assumptions

- The tracking spreadsheet is a data management tool for tracking each comment response. It will be used by the Consultant and District as a reference to the formal response location within the final documentation.
- Not all comments received will need action at this time. For example, some may be more appropriate considered during the evaluation of impacts or development of mitigation. The spreadsheet will record the disposition of the comment accordingly.
- The tracking spreadsheet will be updated as needed and used as a tool throughout this phase of work with deliverable due at the end of the phase.

#### Deliverables

- Draft and final tracking spreadsheet

### Task 2.3 – Opportunities, Constraints, and Methodologies

The purpose of this task is to provide discipline-specific insights that can confirm and inform the identification of the study area (upstream and downstream limits), questions for the local jurisdiction or other agencies with authority, and potential revisions and additions to the alternatives under consideration. This task will also allow identification and definition of the resources that will be analyzed within the study area and the consideration and review of the appropriate level of evaluation for a PEIS. The following discipline-specific insights will be provided (includes reference to SEPA elements of the environment [WAC 197-11-444] or King County Equity and Social Justice Strategic Plan [ESJSP]):

- Hydraulics/hydrology (SEPA 1.c.i – 1v)
- Land and shoreline use - includes land use and shoreline patterns, land use plans and growth; aesthetics; recreation; open space, agricultural activities and trends) (SEPA 2.b.i-vii)
- Equity and social justice (includes demographics, socioeconomics, and priority populations [low-income, people of color, those with limited English proficiency]; child and youth development; elderly; economic development and jobs; environmental health; health and human services; housing; information and technology; justice system; transportation and mobility (ESJSP)
- Public services – includes:
  - Transportation (transportation systems; vehicle traffic; water, rail, and air traffic; parking; movement and circulation of people and goods; traffic hazards) (SEPA 2.c.i,iii,v)

## SCOPE OF WORK (continued)

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- o Utilities and services (fire; police; schools; parks and recreational facilities; maintenance; communications; water and stormwater; sewage and solid waste; other governmental services and utilities) (SEPA 2.d.i-ix)
- Aquatic biology and riparian habitat (SEPA 1.d)
- Water quality (SEPA 1.c.i,iii)
- Climate change (SEPA 1.b.iii)
- Cultural and historic resources (SEPA 2.b.vi)

Each discipline lead will review scoping comments received and available literature relevant to their area of expertise, and information provided for each reach by the project team. Each discipline lead will participate in six (6) meetings to discuss opportunities and constraints that could inform finalization of alternatives. The opportunities and constraints will be documented in meeting notes (taken by Parametrix but reviewed by the broader team).

Each discipline lead will also propose a methodology for the programmatic evaluation of impacts. The methodologies will include a definition of the resources that will be analyzed within the study area, information and data sources, geographic coverage, types of analysis (qualitative, quantitative, level of accuracy), and relevant regulations or standards. Methodologies will also describe how impacts and enhancements will be identified and evaluated<sup>1</sup>. The Consultant will develop an outline for either a methodologies report that consolidates the discipline-specific approaches or discipline-specific technical memorandums.

This task will also develop an annotated outline of the draft PEIS. The outline will describe the structure and content of the executive summary, EIS sections, and appendices. The outline will explain the target audiences for each portion of the EIS and level of writing (e.g., high school, college graduate, etc.). In addition to the outline, this task will develop the format for the PEIS for both printed and electronic distribution.

### Assumptions

- Information provided will include reach-specific analyses and notes, list of available literature, as well as scoping comments received
- Each discipline lead will supplement the information provided with additional available literature as needed
- A draft outline for the technical memos will be developed by the Consultant and reviewed with the Flood Control District before the memos are prepared.
- Draft methodologies will be submitted and reviewed before affected environment and existing conditions data collection (Task 2.6) is completed.
- Each meeting will be two (2) hours in duration with twelve (12) consultant staff attendance.

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<sup>1</sup> In this context “impacts” refer to effects resulting from the flood hazard management plan; “enhancements” refer to features or actions by the District or others that could offer environmental or other benefits provided they are consistent with flood hazard management plans’ purpose and need.

### Deliverables

- Draft and final meeting notes
- Draft, revised draft, and final outline that can be used for either methodology report or discipline-specific technical memorandums
- Draft, revised draft, and final methodology memorandums in a format proposed by the Consultant and approved by the District
- Draft, revised draft, and final annotated outline of the draft PEIS

### Task 2.4 Intergovernmental Communication Support (Optional)

Several comments received during scoping make specific suggestions to modify the existing or planned use of areas near the Green River for flood management and/or improved habitat. Other scoping comments ask the District to collaborate with other governments (local jurisdictions and regulatory agencies) to explore meeting the goals and objectives of the Flood Hazard Management Plan by means other than construction and maintenance of flood control structure or infrastructure. Such comments pertaining to alternatives being considered may raise matters outside of the Districts' authority and could benefit from formal communication with jurisdictions or agencies with established authority related to components or aspects of the Flood Hazard Management Plan. The purpose of this task is to support, if needed, correspondence or discussions with other governments as part of the basis for the District establishing the alternatives that will be evaluated in the PEIS. Documentation of this communication will be included in the projects' records. The Consultant will:

- Assist the District in deciding which, if any, governments would be engaged and assist the District to develop specific questions on matters under their authority related to Flood Hazard Management Plan.
- Participate in up to twelve (12) preparation meetings in which strategy and approach are detailed. These preparation meetings will be two (2) hours in duration include an average of three (3) Consultant staff.
- Draft up to twelve (12) letters for review and finalization by the District.
- Participate in up to six (6) meetings with the agencies. These meetings will be one (1) hour in duration and include one (1) Consultant staff.
- Prepare meeting records and assemble associated correspondence.
- Review feedback received and provide recommendations for follow-up. This step will be addressed in weekly strategy meetings/calls covered under Task 2.1.

### Assumptions

- Correspondence or communications would be by District staff or representatives, with support from the Consultant.
- See details above regarding the number and duration of meetings and the number of staff attending each meeting.
- For budgeting purposes, meeting attendees are shown as Parametrix employees. If subject-area experts are needed, budget will be shifted from Parametrix to subs as needed to accommodate.

### Deliverables

- Eight (8) draft, revised draft, and final preparation meeting notes that can also be used as agency meeting plans
- Eight (8) draft letters
- Four (4) draft and final agency meeting notes

### Task 2.5 – Alternatives

The purpose of this task is to document development of the alternatives for evaluation in the draft PEIS. The Consultant will draw from information developed under task 2.3 and the interagency discussions under task 2.4 as well as information received during scoping to revise alternatives 1, 2, and 3 and potentially propose additional alternatives. In addition to refining and possibly proposing alternatives, the Consultant will identify features or measures suggested by others that are not reasonable based on likely effects, effectiveness, consistency with the Districts' policies, the plan's purpose and need, or other factors. The Consultant will meet with the District staff to discuss and evaluate revised and potential alternatives. Revisions to current alternatives and any additional alternatives will be developed through joint discussions by the Consultant, King County Water and Land Resource Division staff, and the District. Decisions on revisions or additions to the alternatives will be made by the District SEPA official.

### Assumptions

- Up to two (2) additional alternatives may be proposed for detailed evaluation in the draft PEIS.
- Up to twelve (12) meetings to discuss alternatives will be attended by four Consultant staff.
- A draft outline of the alternatives technical memorandum will be reviewed by the Flood Control District before the memorandum is prepared.
- The memo will include GIS figures for the new and revised alternatives comparable to those used in scoping, as well as any revised typical sections. The Consultant will be responsible for preparing these figures.

### Deliverables

- Up to twelve (12) draft and final alternatives meeting notes
- Draft, revised draft, and final technical memorandum on alternatives

### Task 2.6 – Affected Environment

The purpose of this task is to develop discipline-specific descriptions of the affected environment that will be included in the EIS. Each discipline lead will also gather information on the affected environment and existing conditions for their subject. Future conditions for each subject within the projects' 30-year planning horizon will be described using established data and current scientific understanding. The following discipline-specific insights will be provided (includes reference to SEPA elements of the environment [WAC 197-11-444] or King County Equity and Social Justice Strategic Plan [ESJSP]):

- Hydraulics/hydrology (SEPA 1.c.i – 1.v)
- Land use (land use and shoreline patterns, land use plans and growth; light and glare; aesthetics; recreation; agricultural activities) (SEPA 2.b.i-vii; 1.e.v)

## SCOPE OF WORK (continued)

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- Equity and social justice (demographics, socioeconomics, and priority populations (low-income, people of color, those with limited English proficiency); child and youth development; elderly; economic development and jobs; environmental health; health and human services; housing; information and technology; justice system; transportation and mobility) (ESJSP)
- Public services – includes
  - Transportation (transportation systems; vehicle traffic; water, rail, and air traffic; parking; movement and circulation of people and goods; traffic hazards) (SEPA 2.c.i,iii,v)
  - Services and utilities (fire; police; schools; parks and recreational facilities; maintenance; communications; water and stormwater; sewage and solid waste; other governmental services and utilities) (SEPA 2.d.i-ix)
- Aquatic biology and riparian habitat (SEPA 1.d)
- Water quality (SEPA 1.c.i,iii)
- Climate change (SEPA 1.b.iii)
- Cultural and historic resources (SEPA 2.b.vi)
- Energy and natural resources (SEPA 1.e) will be generally described

The Consultant will develop GIS data layers with information on affected environment and existing conditions for evaluation and display on King County's iMap system.

### Deliverables

- Draft, revised draft, and final affected environment in a format proposed by the Consultant and approved by the District

### Task 2.7 – Aerial Image Acquisition and 3D Modeling

The purpose of this task is to obtain aerial imagery of the study area that will help with evaluating alternatives and in displaying project information for the public. The use of aerial imagery will reduce the labor for field work and provide adequate information for the PEIS. The imagery will be georeferenced and suitable for adding overlays of project related features or information.

### IMAGERY COLLECTION

Miller Creek Associates (MCA) will be responsible for this task as described in the attached detailed proposal. This work is summarized as follows:

- Acquire aerial imagery for approximately 32 square miles based on flight plan option #1—80 percent forward overlap and approximately 2,180 raw images.
- Process each image's position and orientation
- Develop 3-dimensional model
- Export model for use by project team

### Assumptions

- Aerial imagery will be acquired at a nominal resolution of 0.25-foot with five or less feet of error.

## SCOPE OF WORK (continued)

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- Information delivered will be for graphical representation only and the accuracy of data presented will not be suitable for design.
- Because an airborne GPS will support the horizontal accuracy requirements of the project, no field surveyed ground control will be necessary.

### Deliverables

- Natural color 3-dimensional image-based model in either \*.fbx or .obj formats

### SAMPLE VIDEO PRODUCTION

The Consultant will use the model to develop a video “fly through” of a sample project area. For the video data layers will be added to the 3-D model that describe existing flood control facilities by type and location. This task will help refine techniques that can be used in later phases to show proposed flood control facilities, results of hydraulic modeling, and other features. The following activities are associated with this task:

- Incorporate facility description data into 3-D model
- Produce “fly through” videos with and without existing flood control facilities highlighted.

### Assumptions

- King County will provide electronic data describing the type and location of existing flood control facilities in the study area.
- Information delivered will be for graphical representation of existing conditions only. Representation of alternatives considered in the PEIS is not included at this time but could be added in a future authorization.

### Deliverables

- Virtual video footage and flight path in electronic format compatible with the client’s software.

### Task 2.8 – Communications Support

The purpose of this task is to support the District in communicating with the public and stakeholders interested in the flood hazard management plan.

The Consultant (Parametrix and Lund-Faucett) will prepare materials and assist in preparations and presentation to the Advisory Committee. The materials and presentation will provide an update on the Flood Hazard Management Plan and PEIS.

For communication with the public the Consultant will prepare brief descriptions of what is happening and next steps. These descriptions will be suitable for posting on the plans’ website or for general distribution by email.

### Task 2.9 – Communications Specialist

The purpose of this task is to provide the District with strategic support in communication with various organizations on multiple topics related to the Plan. Support will also be provided for digital and social media communications. Work under this task may include:

#### Communications:

- Help develop and refine messaging and strategy

## SCOPE OF WORK (continued)

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- Provide on-going public affairs counsel
- Participate in strategy meetings and other planning efforts
- Assist with relationship building and coalition activities
- Create and implement communications strategies
- Manage media relations

### Digital and social media:

- Enhance and manage social media channels
- Create social media content for Facebook, Twitter & Instagram
- Design compelling social media page layouts and populating content
  - Graphic design to include social graphics, GIFs and imagery
- Develop a monthly editorial calendar to guide content posting and digital efforts
- Scheduled posting at 2-5 times per week on each social channel
- Deliver regular reports on performance
- Participation in regular client strategy and coordination calls as needed

### Assumptions

- Work under this task will be as directed by the District.

### Deliverables

- Deliverables under this task will be as directed by the District.

### Task 2.10 - Hydraulic Modeling Peer Reviews

Understanding the response of the river to different flood management alternatives is foundational to all other impact analyses. The purpose of this task is to ensure the hydraulic modeling used for the analysis is robust and accurate. The Consultant will provide peer reviews of the hydraulic modeling of Lower Green River PEIS to be performed by the District and its consultant, Northwest Hydraulic Consultants (NHC). The peer reviews include the following tasks:

- Review Existing Conditions Technical Memorandum, prepare a peer review memo, and check responses to peer review comments
- Review hydraulic models for alternative modeling and a technical memorandum on the hydraulic modeling and analysis of alternatives, and check responses to peer review comments
- Review a technical memorandum on the economics evaluation of alternatives, and check responses to peer review comments
- Review hydraulic models for up to two additional alternative variations and supplemental documentation, and check responses to peer review comments
- Four (4) 1-hour conference calls to discuss peer review comments after each peer review

### Assumptions

- The peer review tasks are based on the King County Scope of Work, Project Name: Hydraulic Modeling Lower Green River PEIS, May 31, 2019.
- Dr. Henry Hu of WEST Consultants, Inc. will provide the peer review.

## SCOPE OF WORK (continued)

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### Deliverables

- Review comments submitted electronically

### Task 99 – Unanticipated Services

The purpose of this task is to provide a quick means by which the Consultant can respond to unforeseen needs. Work under this task shall be in response to written direction given by the District with a clear scope and deliverables. Effort will be tracked and invoiced on a time and material basis, using approved rates and personnel. The sum of all efforts under this task shall not exceed the amount approved in the budget. Unused balances are not owed to the consultant.

### MANAGEMENT RESERVE

The purpose of this task is to provide a means by which the District can authorize additional analyses to better meet the District's objectives and communications support if needed to keep the public and stakeholders informed. That work could include, but is not limited to, an extension of the study area into the middle Green River for the purpose of:

- Mitigation of impacts resulting from flood facilities in the lower Green;
- Consideration of additional enhancements in the middle Green River that meet the District's objectives for a balanced, multi-benefit approach;
- Flood control measures or facilities in the middle Green River that help manage the risk of flooding in the lower Green River;
- Additional hydrologic modeling of existing conditions and up to two alternatives to determine the flood benefit of actions in the middle Green River and peer review; or
- Additional public scoping to accept comments on actions or improvements in the middle Green River.
- For purposes of quantifying the extent of the possible inclusion of the middle Green River in the analysis, the river mile limits are 32 to 61.

This work does not include considerations of actions beyond the authority of the District such as modifications to the Howard Hanson Dam. This work further assumes the purpose of the flood hazard management plan as established by King County Flood Control District Motions FCD18-01.1 does not change. Including the middle section of the Green River could extend the duration of this phase of work by up to four months.

Work under management reserves will require the preparation a detailed scope and budget and approval by the SEPA official. The sum of all efforts under this task shall not exceed the amount approved in the budget. Unused balances are not owed to the consultant.



Parametrix (Project management, production, water quality)				Jeff Hancock	Jennifer A. Dailey	David S. Williams	John Phillips	John French	Paul Arnold	Sarah Kille	Kenneth Jackson	Alyssa M. Worcham	Josh Manning	David Trivette	Erin Elg	Jeff Coop	Erin Heger	Emily Gregory	Bob Terry	John M. Felthousen	John Cozart	John A. Callahan	David Harris
				ECO	IC Consultant	IC Consultant	IC Consultant	IC Engineer	IC Consultant	Engineer III	Planner IV	Planner I	Planner IV	IC GIS Analyst	Planner IV	IC Engineer	Planner III	Planner I	Survey Supervisor	Publications Supervisor	Technical Editor	IC Project Accountant	Project Controls Specialist
Burdened Rates:				\$250.00	\$356.75	\$240.40	\$242.19	\$185.32	\$265.04	\$118.75	\$195.79	\$100.20	\$142.03	\$108.43	\$148.10	\$201.63	\$113.68	\$78.55	\$208.70	\$151.58	\$122.03	\$124.22	\$116.04
Task/ Subtask	Description	Labor Dollars	Labor Hours																				
<b>02</b>	<b>Alternatives, Methodologies, and Affected Environment</b>																						
2.1	Project Management	\$59,146.13	675	16	162	60	9	8	0	0	0	0	0	0	0	0	0	0	0	2	0	30	175
	PMF creation, schedule and schedule update	\$8,457.05	37	0	26	4	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	5
	Manage items and tasks	\$2,237.80	150	0	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
	Insures and progress	\$12,410.70	130	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
	Project records	\$4,323.84	56	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
	Weekly strategy mtgs or calls	\$15,426.60	107	16	46	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.2	Stippling Comment Tracking	\$14,446.71	110	0	4	6	0	0	0	0	64	38	0	0	0	0	0	0	0	0	0	0	0
	Spreadsheet development	\$1,117.92	18	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Ongoing updates	\$6,720.46	64	0	2	2	0	0	0	0	50	20	0	0	0	0	0	0	0	0	0	0	0
	Deliverables	\$4,099.55	28	0	0	4	0	0	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0
2.3	Geographies, Constraints, and Methodologies	\$71,180.27	420	0	20	72	28	72	12	0	24	76	16	16	20	20	0	0	0	24	20	0	0
	Project Management, other support (incl GIS)	\$21,500.43	254	0	16	40	0	0	0	0	24	16	16	20	20	0	0	0	0	8	4	0	0
	Water Quality	\$19,443.43	100	0	4	4	4	72	12	0	0	0	0	0	0	0	0	0	0	4	4	0	0
	Climate Change	\$12,817.11	92	0	0	4	20	0	0	0	60	0	0	0	0	0	0	0	0	4	4	0	0
	Annotated outline	\$9,309.30	44	0	4	24	4	0	0	0	0	0	0	0	0	0	0	0	0	8	4	0	0
2.4	Intergovernmental Discussions	\$31,057.85	142	0	43	66	0	0	0	0	16	0	0	0	0	0	0	0	0	32	8	0	0
	Preparation meetings	\$15,466.04	70	0	24	30	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0
	Draft correspondence	\$7,489.76	36	0	17	12	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6	0	0
	Agency meetings	\$8,102.05	16	0	6	24	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0
2.5	Alternatives	\$65,597.42	238	24	88	74	52	0	0	0	40	0	12	0	0	0	0	0	0	8	3	0	0
	Meetings (weekly)	\$26,824.72	108	12	48	36	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Documentation	\$38,772.69	130	2	20	60	40	0	0	40	0	12	0	0	0	0	0	0	0	8	3	0	0
2.6	Affected Environments	\$43,850.30	532	0	20	48	28	40	12	16	60	120	60	0	40	40	0	0	0	32	20	0	0
	Project Management, support (incl GIS)	\$47,740.55	291	0	20	40	0	0	0	0	60	40	36	0	40	40	0	0	0	8	8	0	0
	Water Quality	\$19,420.20	130	0	0	2	2	40	12	16	0	0	34	0	0	0	0	0	0	16	8	0	0
	Climate Change	\$16,379.05	120	0	0	4	24	0	0	0	0	80	0	0	0	0	0	0	0	8	4	0	0
2.7	Aerial Image Acquisition and 3D Modeling	\$18,107.81	148	0	2	2	0	0	0	0	0	0	0	0	0	80	40	24	0	0	0	0	0
	Imagery Collection	\$2,647.91	12	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Video development	\$12,510.70	118	0	0	0	0	0	0	0	0	0	0	0	0	80	40	18	0	0	0	0	
2.8	Communications Support	\$5,469.42	30	0	4	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Project management and support	\$2,469.42	10	0	4	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Advisory Committee Meeting support	\$0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.9	Communications Specialist	\$2,982.92	12	0	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Project management and support	\$1,982.92	12	0	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Advisory Committee Meeting support	\$0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.10	Hydraulic Modeling Peer Review	\$5,429.39	26	0	2	6	0	6	6	0	0	0	0	0	0	0	0	0	0	4	2	0	0
	Project Management, support (incl GIS)	\$3,376.13	14	0	2	4	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Deliverable	\$2,053.26	12	0	0	2	0	2	2	0	0	0	0	0	0	0	0	0	0	4	2	0	0
2.11	Unanticipated Services (additional)	\$6,824.47	54	4	8	16	0	0	0	0	0	16	0	0	0	0	0	0	0	10	0	0	0

<b>Labor Totals:</b>	<b>\$389,221.65</b>	<b>2,227</b>	<b>34</b>	<b>368</b>	<b>182</b>	<b>106</b>	<b>118</b>	<b>30</b>	<b>16</b>	<b>204</b>	<b>248</b>	<b>88</b>	<b>26</b>	<b>60</b>	<b>60</b>	<b>80</b>	<b>40</b>	<b>24</b>	<b>92</b>	<b>98</b>	<b>30</b>	<b>175</b>
<b>Totals:</b>	<b>\$399,221.65</b>	<b>2,227</b>	<b>\$8,500.00</b>	<b>\$94,464.00</b>	<b>\$91,893.76</b>	<b>\$15,672.14</b>	<b>\$11,855.87</b>	<b>\$7,951.13</b>	<b>\$1,820.00</b>	<b>\$26,672.49</b>	<b>\$34,865.10</b>	<b>\$12,498.20</b>	<b>\$1,735.24</b>	<b>\$8,886.15</b>	<b>\$12,097.80</b>	<b>\$9,110.40</b>	<b>\$3,147.10</b>	<b>\$4,980.80</b>	<b>\$12,142.39</b>	<b>\$6,832.28</b>	<b>\$3,725.45</b>	<b>\$20,435.56</b>
<b>Direct Expenses</b>	<b>QTY</b>	<b>Rate</b>																				
Mileage	1500	\$0.560																				
Fares	24	\$12.000																				
<b>Direct Expenses Total:</b>	<b>\$1,218.00</b>																					
<b>Project Total:</b>	<b>\$400,439.65</b>																					

Client: King County Flood Control District  
 Project: Lower Green River  
 Project No: 553-7543-802

West Consulting				Henry Hu	Ray Walton	Dan Eggers	J.Paul Rinehimer	Keelan Jensen	Evan Deal	Katie Messick	Lina Aaf
				Lead Hydraulic Engineer	QA/QC Lead	Senior Engineer	Senior Engineer	Staff Engineer	Staff Engineer	Senior Scientist	Admin
<b>Burdened Rates:</b>				\$220.72	\$243.95	\$165.64	\$156.06	\$120.57	\$100.24	\$97.97	\$67.46
Task/ Subtask	Description	Labor Dollars	Labor Hours								
02	<b>Alternatives, Methodologies, and Affected Environment</b>										
2.3	<b>Opportunities, Constraints, and Methodologies</b>	<b>\$26,502.55</b>	<b>146</b>	<b>97</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>33</b>	<b>0</b>	<b>12</b>
	Review available information	\$9,368.32	48	40							8
	Conduct a basin tour	\$2,888.57	18	9					9		
	Attend 4 meetings in Downtown Seattle	\$3,851.42	24	12					12		
	Prepare a technical memo for opportunities and constraints	\$5,357.10	32	16	2				12		2
	Prepare a technical memo for methodologies	\$5,037.14	24	20	2						2
2.6	<b>Affected Environments</b>	<b>\$12,437.14</b>	<b>76</b>	<b>40</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>36</b>	<b>0</b>	<b>0</b>
	Gather information	\$2,968.56	20	8					12		
	Descriptions of affected environment	\$9,468.58	56	32					24		
2.10	<b>Hydraulic Modeling Peer Reviews</b>	<b>\$27,528.85</b>	<b>148</b>	<b>72</b>	<b>0</b>	<b>0</b>	<b>72</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>0</b>
	Review Existing Conditions Technical Memorandum	\$3,932.41	20	16					4		
	Review alternative hydraulic Modeling and analysis	\$10,291.11	56	24			32				
	Review economics evaluation of alternatives	\$3,638.45	20	8			12				
	Review alternative variations modeling	\$8,159.77	44	20			24				
	Attend conference calls	\$1,507.11	8	4			4				

<b>Labor Totals:</b>	<b>\$66,468.54</b>	<b>370</b>	<b>209</b>	<b>4</b>	<b>0</b>	<b>72</b>	<b>0</b>	<b>73</b>	<b>0</b>	<b>12</b>
<b>Totals:</b>	<b>\$66,468.54</b>	<b>370</b>	<b>\$46,129.79</b>	<b>\$975.79</b>	<b>\$0.00</b>	<b>\$11,236.31</b>	<b>\$0.00</b>	<b>\$7,317.18</b>	<b>\$0.00</b>	<b>\$809.47</b>

Direct Expenses	Quantity	Rate	Cost
Mileage	176	\$0.58	\$102.08
Parking in Downtown Seattle	4	\$30.000	\$120.00
<b>Direct Expenses Total:</b>			<b>\$222.08</b>
<b>Project Total:</b>			<b>\$66,690.62</b>

## Gallatin Public Affairs (Communications Specialist)

**Burdened Rates:**

Task/ Subtask	Description	Labor Dollars	Labor Hours
02	<b>Alternatives, Methodologies, and Affected Environment</b>		
2.9	Communications Strategy	\$175,000.00	790
	Communications	\$100,000.00	405
	Digital and social media	\$75,000.01	385

<b>Labor Totals:</b>	<b>\$175,000.00</b>	<b>790</b>
<b>Totals:</b>	<b>\$175,000.00</b>	<b>790</b>

Direct Expenses	Quantity	Rate
Mileage		\$0.58
Printing costs (advisory committee meeting)		

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**Direct Expenses Total:**

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**Project Total:**

	Bruce Gryniowski		Joe Mansour	
	Partner		Director	Associates
	\$300.00		\$250.00	\$150.00
	242		202	346
	182		120	103
	60		82	243

	242		202	346
	\$72,600.00		\$50,500.00	\$51,900.00

**Cost**

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\$0.00

\$0.00

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\$0.00

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**\$175,000.00**

Client: King County Flood Control District  
 Project: Lower Green River  
 Project No: 553-7543-802

<b>Lund Faucett (Communications Support)</b>				Kris Faucett	Vanessa Lund	Kyle Jensen
				Partner	Research Director	Associate
<b>Burdened Rates:</b>				\$245.00	\$188.00	\$130.00
Task/ Subtask	Description	Labor Dollars	Labor Hours			
02	<b>Alternatives, Methodologies, and Affected Environment</b>					
2.8	Communications Support	<b>\$8,148.00</b>	<b>47</b>	<b>14</b>	<b>9</b>	<b>24</b>
	Project Management	\$735.00	3	3	0	0
	Develop project updates (up to 3)	\$2,967.00	20	3	2	15
	Develop written responses to inquiries (up to 10)	\$1,328.00	8	2	1	5
	Support for Advisory Committee Meeting	\$3,118.00	16	6	6	4

<b>Labor Totals:</b>	<b>\$8,148.00</b>	<b>47</b>	<b>14</b>	<b>9</b>	<b>24</b>
<b>Totals:</b>	<b>\$8,148.00</b>	<b>47</b>	<b>\$3,430.00</b>	<b>\$1,598.00</b>	<b>\$3,120.00</b>

Direct Expenses	Quantity	Rate	Cost
Mileage		\$0.58	\$0.00
Printing costs (advisory committee meeting)			\$250.00
			\$0.00
<b>Direct Expenses Total:</b>			<b>\$250.00</b>
<b>Project Total:</b>			<b>\$8,398.00</b>

Client: King County Flood Control District  
 Project: Lower Green River  
 Project No: 553-7543-802

Globalwise				Principal Ag Economist
				B. Prenguber

				Burdened Rates:	\$171.00
Task/ Subtask	Description	Labor Dollars	Labor Hours		
<b>02</b>	<b>Alternatives, Methodologies, and Affected Environment</b>				
2.3	Opportunities, Constraints, and Methodologies	<b>\$18,810.00</b>	<b>110</b>		<b>110</b>
	Start Up / Site Review (incl travel time)	\$2,394.00	14		14
	Develop Methodology incl Regulations & Compliance Standards	\$5,130.00	30		30
	Revise Methodology from Comments	\$1,710.00	10		10
	Final Methodology Refinement & Documentation	\$1,368.00	8		8
	Consultant Team Sharing Current Data and Sources	\$1,026.00	6		6
	4 Meetings with KCFCD/Parametrix et al (@ 8 hrs ea. incl travel)	\$5,472.00	32		32
	Draft & Finalize Technical Memorandum	\$1,710.00	10		10
2.6	Affected Environments	<b>\$13,680.00</b>	<b>80</b>		<b>80</b>
	Data Collection/Existing Environment	\$4,104.00	24		24
	Review 30-Year Future Conditions	\$3,420.00	20		20
	Analysis	\$4,788.00	28		28
	Draft & Revise Agriculture Related Descriptions	\$1,368.00	8		8

<b>Labor Totals:</b>	<b>\$32,490.00</b>	<b>190</b>	<b>190</b>
<b>Totals:</b>	<b>\$32,490.00</b>	<b>190</b>	<b>\$32,490.00</b>

Direct Expenses	Quantity	Rate	Cost
Mileage	1750	\$0.58	\$1,015.00

**Direct Expenses Total: \$1,015.00**

**Project Total: \$33,505.00**

Client: King County Flood Control District  
 Project: Lower Green River  
 Project No: 553-7543-802

Confluence				Chris Cziesla	Chris Berger	Amy Groesbeck	Kathy Sitchin	Nora Burton
				Principal	Senior Scientist	Project Scientist	Technical Editor	Accounting Manager
<b>Burdened Rates:</b>				\$278.41	\$163.24	\$97.19	\$122.38	\$133.33
Task/ Subtask	Description	Labor Dollars	Labor Hours					
02	<b>Alternatives, Methodologies, and Affected Environment</b>							
2.3	<b>Opportunities, Constraints, and Methodologies</b>	<b>\$28,272.51</b>	<b>178</b>	<b>30</b>	<b>74</b>	<b>50</b>	<b>20</b>	<b>4</b>
	Information review	\$11,130.32	74	10	30	30		4
	Meetings (4)	\$3,072.56	16	4	12			
	Draft, rev draft, and final opps/const memo	\$4,749.41	30	8	2	10	10	
	Draft, rev draft, and final methods memo	\$9,320.23	58	8	30	10	10	
2.6	<b>Affected Environments</b>	<b>\$43,432.08</b>	<b>300</b>	<b>30</b>	<b>130</b>	<b>130</b>	<b>10</b>	<b>0</b>
	Information review	\$10,597.01	70	10	30	30		
	Field visit (2 days)	\$5,208.63	40		20	20		
	Draft, rev draft, and final affected env write up	\$27,626.44	190	20	80	80	10	

<b>Labor Totals:</b>	<b>\$71,704.60</b>	<b>478</b>	<b>60</b>	<b>204</b>	<b>180</b>	<b>30</b>	<b>4</b>
<b>Totals:</b>	<b>\$71,704.60</b>	<b>478</b>	<b>\$16,704.43</b>	<b>\$33,301.76</b>	<b>\$17,493.75</b>	<b>\$3,671.36</b>	<b>\$533.30</b>

Direct Expenses	Quantity	Rate	Cost
Mileage	150	\$0.58	\$87.00
Boat (2 days)	2	\$300.00	\$600.00
<b>Direct Expenses Total:</b>			<b>\$687.00</b>
<b>Project Total:</b>			<b>\$72,391.60</b>

Client: King County Flood Control District  
 Project: Lower Green River  
 Project No: 553-7543-802

Historical Research Associates				Brent Hicks	Natalie Perrin	Chrisanne Beckner	Gabriel Frazier	Ron Adams	Heather Miller	Michele Punke	Dawn Vogel	Jessica Frank
				Sr Archaeologist, Project Manager	Sr Architectural Historian	Project Architectural Historian	GIS Specialist	Project Archaeologist	Sr Historian	Geoarchaeologist	Editor	Production Specialist
Burdened Rates:				\$158.08	\$102.66	\$79.83	\$103.03	\$97.19	\$138.64	\$111.68	\$83.60	\$66.24
Task/ Subtask	Description	Labor Dollars	Labor Hours									
<b>02</b>	<b>Alternatives, Methodologies, and Affected Environment</b>											
2.3	Opportunities, Constraints, and Methodologies	<b>\$24,679.16</b>	<b>202</b>	<b>82</b>	<b>30</b>	<b>28</b>	<b>10</b>	<b>22</b>	<b>12</b>	<b>6</b>	<b>6</b>	<b>6</b>
	Review Information	\$7,934.79	74	12	12	18	6	18	4	4		
	Attend meetings	\$1,896.98	12	12								
	Prepare Opps and Constraints memo	\$9,475.86	74	36	14	4	4	4	4	2	3	3
	Prepare Methodology memo	\$5,371.53	42	22	4	6			4		3	3
2.6	Affected Environments	<b>\$32,507.80</b>	<b>301</b>	<b>65</b>	<b>18</b>	<b>92</b>	<b>28</b>	<b>54</b>	<b>10</b>	<b>26</b>	<b>5</b>	<b>3</b>
	Gather and review resource information	\$13,320.13	130	18	8	48	6	30	2	18		
	Analyze future conditions	\$4,485.06	32	20	4		4		2	2		
	Develop GIS layers	\$1,394.49	13	1			12					
	Write EIS section	\$13,308.13	126	26	6	44	6	24	6	6	5	3
<b>Labor Totals:</b>		<b>\$57,186.96</b>	<b>503</b>	<b>147</b>	<b>48</b>	<b>120</b>	<b>38</b>	<b>76</b>	<b>22</b>	<b>32</b>	<b>11</b>	<b>9</b>
<b>Totals:</b>		<b>\$57,186.96</b>	<b>503</b>	<b>\$23,237.95</b>	<b>\$4,927.73</b>	<b>\$9,580.04</b>	<b>\$3,915.30</b>	<b>\$7,386.25</b>	<b>\$3,050.16</b>	<b>\$3,573.76</b>	<b>\$919.56</b>	<b>\$596.19</b>

Direct Expenses	Quantity	Rate	Cost
Mileage		\$0.58	\$0.00
<b>Direct Expenses Total:</b>			<b>\$0.00</b>
<b>Project Total:</b>			<b>\$57,186.96</b>

Client: King County Flood Control District  
 Project: Lower Green River  
 Project No: 553-7543-802

BERK Consulting				Lisa Grueter	Kevin Ramsey	Ben Silver	Lisa Johnson	Julie Tesch	Patricia Taylor
				Principal	Associate Principal	Associate II	Associate II	Associate I	Project Associate
Burdened Rates:				\$210.33	\$158.86	\$98.14	\$104.84	\$93.94	\$70.11
Task/ Subtask	Description	Labor Dollars	Labor Hours						
<b>02</b>	<b>Alternatives, Methodologies, and Affected Environment</b>								
2.3	Opportunities, Constraints, and Methodologies	<b>\$12,263.81</b>	<b>80</b>	<b>24</b>	<b>28</b>	<b>12</b>	<b>8</b>	<b>8</b>	<b>0</b>
	Coordination with Team and County	\$4,508.87	28	8	14	4	2		
	Land and shoreline use: Method and Opp/Const	\$1,681.36	10	6			4		
	Equity and social justice: Method and Opp/Const	\$3,429.74	24	2	14	8			
	Transportation: Method and Opp/Const	\$1,426.76	10	4			2	4	
	Public services and utilities: Method and Opp/Const	\$1,217.07	8	4				4	
2.6	<b>Affected Environments</b>	<b>\$39,528.19</b>	<b>327</b>	<b>40</b>	<b>56</b>	<b>62</b>	<b>74</b>	<b>72</b>	<b>23</b>
	Coordination with Team and County	\$4,766.97	34	4	16	6	4	4	
	Data Collection	\$3,749.15	32	2	6	8	8	8	
	Land and shoreline use: Affected Environment	\$6,505.73	53	10	2	6	30		5
	Equity and social justice: Affected Environment	\$10,974.06	90	4	28	28	24		6
	Transportation: Affected Environment	\$6,891.10	60	10	2	4	8	30	6
	Public services and utilities: Affected Environment	\$6,641.17	58	10	2	10		30	6

<b>Labor Totals:</b>	<b>\$51,792.00</b>	<b>407</b>	<b>64</b>	<b>84</b>	<b>74</b>	<b>82</b>	<b>80</b>	<b>23</b>
<b>Totals:</b>	<b>\$51,792.00</b>	<b>407</b>	<b>\$13,461.17</b>	<b>\$13,343.93</b>	<b>\$7,262.13</b>	<b>\$8,597.26</b>	<b>\$7,514.98</b>	<b>\$1,612.54</b>

Direct Expenses	Quantity	Rate	Cost
Mileage/Parking/Car Share	300	\$0.58	\$174.00
Copies (B/W 10 cents, Color 35 cents)	300	\$0.250	\$75.00
<b>Direct Expenses Total:</b>			<b>\$249.00</b>
<b>Project Total:</b>			<b>\$52,041.00</b>