



**Ecology Payment**

**Request Forms**

**Required:**

**Quarterly Progress Report**

**C2 – Voucher Support  
B2- Running Budget Summary  
A19-1A – Invoice Voucher**

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# Flood Control Assistance Account Program Quarterly Grant Progress Report



Recipient Name: Skagit County Contract No.: G1000163  
Project Title: **Skagit River Risk Management Projects**  
Reporting Period: From: January 1, 2010 To: March 31, 2010  
Ecology's Project Officer: Chuck Steele Progress Report #: 1  
Reported by: \_\_\_\_\_ Date: April 30, 2010  
Recipient Signature

## Ecology Review

\_\_\_\_\_  
Project Officer

\_\_\_\_\_  
Date

Compare actual accomplishments by task to the objectives established. List deliverables per the grant agreement due to Ecology by date of this progress report and their status.

- No project costs are being submitted for October – December 2009; County and Corps Skagit GI expenditure and activity reports are provided as a project update only. Skagit County budgeted for grant activities to commence January 1, 2010.

**Task 1: Project Coordination** - The Recipient will coordinate throughout the grant period with Ecology and other state agencies and Indian tribes as applicable. In its commitment to provide technical assistance throughout the grant period, Ecology will meet with the jurisdiction to present and discuss approaches to floodplain construction issues before work begins.

- Performed project management and coordination with Corps, Tribes and other agencies.

Deliverable: *Progress report for January- March 2010.*

**Task 2: Non Structural Projects** - FEMA notified the County that HMG – 1734 was funded for the Buy-out of six Cape Horn properties. The County contacted landowners to reconfirm interest in the buy-out program and is continuing to complete the necessary steps to sign the grant agreement with FEMA. FEMA issued and then withdrew the new base flood elevation maps. The County provided FEMA with a request for technical information as well as a letter requesting the Community 30 day review period be extended to 6 months. FEMA responded by extending the review to three months and provided the data requested. The local community has been working with FEMA technical staff and the USGS to improve the accuracy of both the hydrology and the FLO-2D modeling efforts currently being completed as part of the FIS update. As part of this effort, the Community met with FEMA, USGS, USACE and Michael Baker representatives in Alexandria, VA to discuss the estimated discharge for the 1921 flood. No new date has been established for the next release of the new preliminary FIS maps. County land use ordinances and Comp Plan will be revised once the new FIS maps are available.

**Deliverables:** *County correspondence with FEMA on Cape Horn application, March 17<sup>th</sup> Technical Conference agenda and meeting materials. Meeting materials are also available at*

[www.skagitriverhistory.com](http://www.skagitriverhistory.com)

**Task 3: Project Management / Administration – County \$26,578.86      Corps \$4,714.55**

**3.1 County Activities:**

- Prepared for and attended weekly County River Improvement management meetings and developed agendas. *Deliverables: Meeting agendas and notes.*
- Participated in monthly project delivery team meeting with the Corps to discuss and provide updates on project activities including progress on study work products and Corps participation in project related outreach efforts. *Deliverables noted in Corps MFR print outs.*
- Participated in technical coordination meetings. Discussions included Measures and Cost estimates / MII software capabilities; Future Without Project Conditions report, assumptions, Expectations for H&H analysis, climate change and Sedimentation; Hydraulic modeling review and update including status of HEC-Ras review and FLO-2D version; additional Baker storage and PMF analysis. *Deliverables: Meeting agendas and notes.*
- Monitored and coordinated Corps progress on study work products including progress on geotechnical investigations for the Levee Failure Analysis and Corps participation in project related outreach efforts.
- Managed contracts with Northwest Hydraulic Consultants (nhc) to perform County in-kind work in support of the Skagit GI PMP. Coordinated data exchange between Corps contractor and County departments as well as consultants. NHC progress report attached.
- Continued review of scope of work and coordinate with Corps staff and consultants to finalize scopes to complete 10% Design and cost estimates for all identified flood reduction measures.
- Prepared monthly “Summary of Local Sponsor’s Contributions” report and documented Local Sponsor expenditures for each month. The County also prepared Congressional Appropriation requests for Cantwell and Murray’s offices in support of FY 11 Army Corp funding for the Skagit GI and secured letters of support from the local community for these requests. *Deliverable: Reports for January – March 2010.*
- Tracked County and Corps project expenditures and budget for grant reporting, work in-kind verification and County project budgeting purposes. Provided spreadsheets and examples to facilitate Corps verification of County in-kind work and Corps project expenditures.
- Traveled to Washington DC. with members of wider Skagit Community and attended meetings with Corps Headquarters, FERC and FEMA agency staff. The purpose was to demonstrate broad support for Skagit GI and request full funding for the Skagit GI; and see what efforts could be made to ensure progress on the study including additional storage at Baker River hydro-project. Coordinated and Participated in technical conference focused on the 1921 flood discharge estimate and Stewart’s field work. The Washington State Congressional Delegation facilitated the participation of Corps, FEMA and USGS experts. *DC Itinerary and trip report.*
- Prepared for and attended Board of County Commissioner sessions to provide updates on the Skagit River Feasibility Study, BCC appointments to the FCZD Advisory Committee and three Technical Committees.
- Prepared for and attended monthly Flood Control Zone District (FCZD) meetings. Technical committees will continue to function as public outreach / public comment forums for the Skagit GI during measure review. *Weekly meeting agenda, sign-in sheets, meeting summaries etc. provided as deliverables for Task 7.*

- Participated in PSE Baker River Coordinating Committee and Aquatic Work Group meetings; continued to work with PSE to implement flood control license articles and paragraphs 4.1.1 and 4.1.2 as written in the Settlement Agreement submitted to FERC on the Baker River Hydroelectric Project Relicensing under P-2150". The County and representatives from the Cities and Dike Districts met with FERC while in DC to discuss progress on implementing additional flood control at the Baker River hydro-electric project. PSE and the Corps were participating via conference phone. PSE and the County are continuing to request that the USACE make the proposed changes to the Baker River Water Control Manual as the first step in implementing improved flood control operations at the Baker River Hydroelectric project. Deliverables: *Agenda and trip report*.
- Participated in additional local flood damage reduction activities and coordinated exchange of information to facilitate opportunity for consistency with Skagit GI efforts including Bridge Modification and I-5 Projection PDT meetings and County-wide non-structural flood reduction coordination meetings. Hired Watershed Planner intended to spend 50% of time on Skagit GI.

### **3.1 Corps Activities:**

- Project Management/Plan Formulation: Project Management/Plan Formulation category includes project management, plan formulation, and public involvement activities as well as PDT participation in PDT meetings. Included are costs for budget analyst, program analyst, planning supervisor, P2 (financial) coordinator.
- Activities under Project Management/Plan Formulation included managing consultant contracts, PDT meetings, and coordination with the PDT and the County.
- Geotechnical/Levee Risk and Reliability (ARRA): This category includes activities to award and execute tasks using funding from the American Recovery and Reinvestment Act of 2009. Funding from ARRA was expended on geotechnical investigations by Shannon & Wilson, a consultant contractor.
- Activities under ARRA included scoping of the Levee Risk and Reliability task, and management of the consultant contract performing Geotechnical Investigations. The Project Manager provided negotiation support and all coordination efforts between USACE staff and Shannon & Wilson staff. Deliverable: *Financial reports for County and Corps expenditures, activity reports, and work schedules*. Due: *Quarterly*.

### **Task 4: Environmental Coordination – County \$3,630.76      Corps \$6,079.10**

#### **County Activities:**

- Environmental: Reviewed copies of existing studies for relevant information for measure evaluation and provided to nhc to assist with development of scope of work for measure design and cost estimation. Participated in local meetings to discuss "Climate Change" and estuary restoration. Conducted Environmental technical committee meeting to discuss involvement with Skagit GI and upcoming review and discussion opportunities with both the County and then later with the Corps. Comments were shared with members of Skagit County Flood Control Zone District Advisory Committee.

#### **Corps Activities:** Updated the Environmental Without Project Conditions Report.

Deliverable: Future Environmental Without Project Conditions Report.

### **Task 5: Surveying and Mapping – No activities are being reported at this time.**

## **Task 6: Economic Evaluation and Without Project Conditions Report - Corps \$ 370.76**

### **6.1 County Activities:**

- Continued to coordinate real estate information exchange between County GIS and Assessor's departments and Corp economic and real estate staff and consultants to update study damages information. Contacted FEMA to make sure the Skagit GI had access to the most recent shape files for the 100 and 500 year flood plains.

### **6.1 Corps Activities:**

- Provided Technical Team Lead oversight for all Economics activities, including coordination of consultant contracts and work products.

Deliverables: 100 and 500 year shape files. Note: The Corps updated "Economic Without Project Condition" is not available as scheduled.

## **Task 7: Public Outreach and Stakeholder Review – County \$5,243.23**

- Public Outreach efforts are summarized in the Quarterly Public Involvement and summary report (attached) and are consistent with the Skagit GI Public Participation Plan as submitted to the USACE. Continued to distribute Skagit GI work products via County website.

Deliverables: Two (2) copies each: *Quarterly Public Involvement Summary Reports including copies of all meeting notices, news releases;*

## **Task 8: Engineering and Design of Flood Damage Reduction Measures and Salmon Habitat Restoration Projects**

### **Task 8.1: Levee Risk and Reliability Analysis: - County \$ 8,396.39 Corps - \$44,606.92**

#### **8.1 County Activities:**

- Continued to provide technical support and additional geotechnical information for geotechnical investigation to Corp's Civil Works staff to establish drill plan for geotechnical investigation and to NHC for design purposes.
- Continued to coordinate with local dike districts to provide existing levee information and prepared right-of-entry for geotechnical investigation and installation of monitoring wells.

#### **8.1 Corps Activities:**

- Activities under ARRA included scoping of the Levee Risk and Reliability task, and management of the consultant contract performing Geotechnical Investigations. The Project Manager provided negotiation support and all coordination efforts between USACE staff and Shannon & Wilson staff. Funding from ARRA was expended on geotechnical investigations by Shannon & Wilson, a consultant contractor. The report for this activity is not available at this time.

**Task 8.2:** Measure Report - 10% design and cost detail for all structural measures and Ecosystem restoration measures to the greatest detail available.

#### **8.2 County Activities:**

- Provided review and revisions to Design and Cost estimating scope of work for NHC contract.
- Continued to maintain FTP site to facilitate exchange of data.
- Distributed copies of 2002 Evaluation Areas study and other documents to provide information on

proposed restoration measures.

- Participated in discussion and distributed PSE documents from on-going Additional Baker Flood Storage Analysis.

### 8.2 Corps Activities:

- Engineering/Design/Geotechnical and Cost Estimating. No work outside of participation in the PDT performed this quarter.

Deliverables: *Measure Design and Cost Estimate scope of work, NHC progress reports and other supporting documents. Note: The levee risk and reliability report is not complete at this time.*

### Task 9: Project Impacts and Effectiveness Analysis – Hydrology and Hydraulics Update: County \$ 6,775.74                      Corps \$ 2,818.59

**Task 9.1:** Hydrology and Hydraulics Update: Hydraulic evaluations will take place on a reach-by-reach basis so that impacted cities, towns and diking districts can readily identify and evaluate their particular interest. Corps documentation needs to be updated to include new information developed since 2004 reports were drafted. The Corps HEC-RAS hydraulic models, developed for the Skagit River from Concrete to Skagit Bay, will be used to perform a detailed hydraulic evaluation. Flood flow and flood stage information from this analysis will be used to size project measures.

#### 9.1 County Activities:

- H&H and Measure Evaluation: Continued to coordinate H & H data exchange between FEMA, USGS, Corps and County for revisions to Skagit river basin hydrology. Nhc has been working with Karl Erikson and Doug Knapp as well as PSE personnel to resolve the flood storage seasonality and length of record issues; and with Shannon and Wilson to complete the scope of work for the Measure's design and cost estimate task order. The County has been providing technical support for both of these efforts.
- The County met with PSE on Baker Flood Control as outlined in the FERC license for the Baker Hydroelectric project and participated in the Flood Control team let meetings to evaluate this information.
- Provided review and technical support for NHC update of Corps Skagit River Basin Existing Conditions Hydrology and Hydraulics report. – NHC progress report attached.

#### 9.1 Corps Activities:

- Hydrology and Hydraulics. Provided support and oversight as Technical Team Lead for H&H activities conducted by the County's Consultant, including scoping of consultant contracts.

Deliverables: *Two (2) copies each: Task order scope of work and Technical memos prepared under contract to County and NHC progress reports. Technical meeting agendas and summaries.*

**Status of Project Schedule:** The Future Environmental Without Project Condition report is currently being reviewed by the Corps. The geotechnical investigation and analysis for the levee failure / non-failure point analysis for the existing levee system is nearing completion. Updating the H&H means that the project evaluation of measures and development of alternatives can finally move forward once costs for individual measures are available. Completing study technical reports and releasing them to agencies and other stakeholders for review in a timely fashion will help restore the community's confidence in the Skagit GI and assist with completing a Comprehensive Flood Risk Management Plan(CFHMP) for the Skagit River basin. The County has prepared a draft report and plans to incorporate appropriate information into the CFHMP for the Skagit River basin as study elements are completed. The County's advisory and technical committees for the Skagit County Flood Control Zone District continue to function as the public outreach component for both the Skagit GI and the CFHMP for the Skagit River Basin.

**Are you submitting a payment request with this progress report?**     Yes     No.

**If no, please explain:**

**Personnel changes:** Corps personnel changes/additions include: Dan Johnson has replaced Amy Gibbons as the new Project Manager, Laura Orr, Cost Eng., Kurt Noble, Survey and Mapping, Charyl Francois, Economics. Corps' staff continues to be assigned to other priority tasks such as the Near Shore GI, Howard Hanson Dam projects and levee repair. County staff changes include the addition of Kara Symonds, Watershed Planner.

**Any difficulties encountered during the quarter:** The Corps updated "Economic Without Project Condition" report and the Levee Risk and Reliability Analysis/Report are not available as scheduled. The County continues to request the use of additional Corps contractors to completed work on the Skagit GI as detailed in this progress report. Corps HQ rejected the Corps read-a-head materials prepared for the Feasibility Scoping Meeting (FSM) in FY '09 due to lack of adequate H &H and Economic baseline technical documentation. The H&H update being performed by County consultants is being delayed due to lack of Corps documentation or the in-availability of information from previous Corps analysis; and or the lack of consistency in the data that is available. Previous technical reviews performed on Corps work are being questioned due to the significance of the issues needing to be resolved during in the current H&H and Economic update. The County has been working with both Puget Sound Energy (PSE) and Seattle City Light (SCL) to fill in some of the missing information and has also been in contact with FEMA to try to reconcile important hydrology and hydraulic data. The Corps geotechnical work for a revised Levee Risk and Reliability analysis being completed by Shannon and Wilson was delayed by Corps staff and then by the Corps contracting process and is also behind schedule. The impact of this delay is being compounded by the additional delays to the H&H update. All of these issues will need to be resolved before work on the Measures report can be completed and the FSM rescheduled. Of particular concern to the county is how the FLO-2d and HEC-RAS hydraulic output will be incorporated into the HEC-FDA model by the Corps to determine the benefit to cost ration for each of the structural measures. The County has coordinate special technical data coordination meetings to try and resolve some of these issues. The Without Project Conditions Report (W/O) that requires that the "Baseline Environmental", the Economic Evaluation of Measures and the Geomorphic Analysis reports be completed and technically reviewed is obviously behind schedule and can not be completed until the fore mentioned technical work is completed and reviewed.

**Anticipated (environmental, recreational, etc.) benefits of the project:** The project will have a positive impact on the natural habitat as well as provide open space with recreation potential. Skagit County continues to be confident that the additional flood control at the Baker River Hydroelectric project will be compatible with other project purposes and provide additional protection benefits for endangered Chinook salmon by reducing bed scour during flood events. Reduced bed scour from high flow events will protect Chinook reds and improve the "egg to fry" survival rates as documented by ongoing studies and monitoring being performed on the Skagit River by Washington State Department of Fish & Wildlife.



# FORM B2: RUNNING BUDGET SUMMARY for PROJECTS with CASH EXPENDITURES ONLY

Use one form for each group of costs with the same eligibility requirements.

Agreement No.: **G1000163** Recipient: Skagit County Payment Request No.: 1 Page: 1 of 1

FOR PROJECTS WITH MORE THAN ONE GROUP OF ELIGIBILITY REQUIREMENTS: Group No.: \_\_\_ Fund Source(s): \_\_\_\_\_

(1) Task No.	(2) Cash Expenditures This Request	(See instructions)		(5) Cumulative Cash Expenditures on Prev. Form B2	(6) New Cumulative Cash Expenditures	(7) Year <b>2009-2011</b> Budget	(8) Eligible Cumulative Element Cost
		(3) Elig. %	(4) Elig. Am't				
3	\$31,293.41	100%	\$31,293.41	\$0.00	\$31,293.41	\$252,500.00	\$31,293.41
4	\$9,709.86	100%	\$9,709.86	\$0.00	\$9,709.86	\$110,000.00	\$9,709.86
6	\$370.76	100%	\$370.76	\$0.00	\$370.76	\$125,000.00	\$370.76
7	\$5,243.23	100%	\$5,243.23	\$0.00	\$5,243.23	\$94,000.00	\$5,243.23
8	\$53,003.31	100%	\$53,003.31	\$0.00	\$53,003.31	\$107,500.00	\$53,003.31
9	\$9,594.33	100%	\$9,594.33	\$0.00	\$9,594.33	\$111,000.00	\$9,594.33
	\$0.00	100%	\$0.00	\$0.00	\$0.00		\$0.00
	\$0.00	100%	\$0.00	\$0.00	\$0.00		\$0.00
	\$0.00	100%	\$0.00	\$0.00	\$0.00		\$0.00
	\$0.00	100%	\$0.00	\$0.00	\$0.00		\$0.00
	\$0.00	100%	\$0.00	\$0.00	\$0.00		\$0.00
	\$0.00	100%	\$0.00	\$0.00	\$0.00		\$0.00
	\$0.00	100%	\$0.00	\$0.00	\$0.00		\$0.00
	\$0.00	100%	\$0.00	\$0.00	\$0.00		\$0.00
	\$109,214.90		\$109,214.90		\$109,214.90	\$800,000.00	(9) \$109,214.90
(10) For each fund administered by Ecology that supports this group of costs, enter the name of the fund and the fund share (%) at right.					Fund: FDP Share: 25 %	Fund: _ Share: %	Fund: _ Share: %
(11) Compute fund amounts. In each column, multiply box 9 above by the fund share (%) in line 10 and enter the result.					\$27,303.73		