

**INTERAGENCY AGREEMENT  
BETWEEN  
WASHINGTON STATE RECREATION AND CONSERVATION OFFICE  
AND  
CITY OF CHEHALIS**

**PARTIES TO THE AGREEMENT**

This Interagency Agreement is made and entered into by and between the Washington State Recreation and Conservation Office, hereinafter referred to as "RCO", and City of Chehalis, hereinafter referred to as "City of Chehalis", pursuant to the authority granted by Chapter 39.34 RCW.

**PURPOSE**

The City of Chehalis' Airport Pump project is to replace the existing, aged airport levee pump (pump located inside levee that rings the airport) as it failed during the 2007 flood event. The pump will help protect the airport and commercial facilities and associated infrastructure behind the airport levee including roads, utilities, and the airport itself. All of these are essential during a flood event (emergency). The new pump design has a redundancy pump in case the primary pump fails in an event. The pump replacement timeline is as follows:

- Design and Permitting: Oct. 2015 – May 2016
- Construction: June 2016 – Oct. 2016 (Construction to take place during least expected rainfall conditions; geotechnical work will occur as soon as possible.)

**PERIOD OF PERFORMANCE**

This Agreement shall become effective **October 1, 2015** or once fully signed, whichever is later, and will expire on **June 30, 2017**, except as clarified in this term below and/or unless terminated sooner or extended as provided herein.

Funding for this project is appropriated through June 30, 2017. This agreement may be extended to include work in FY 2017 as needed and if funding is available.

**STATEMENT OF WORK**

City of Chehalis shall provide the following services to RCO related to flood hazard reduction in the Chehalis Basin and support of the Chehalis River Basin Flood Authority:

See Attachment A – Updated 2015-17 Small Projects Recruitment Form (dated June 9, 2015).

**COMPENSATION**

RCO shall reimburse City of Chehalis, an amount not to exceed Seven Hundred and Sixteen Thousand Dollars (**\$716,000**), including any applicable tax and indirect costs, for the performance of all things necessary for, or incidental to, the work as set forth in this Agreement.

Allowable costs shall include costs incurred by the City of Chehalis from the first date of the Agreement period until the Agreement is terminated or expires as provided herein, but in no event shall allowable

costs exceed the maximum amount of the Agreement. Costs allowable under this Agreement are based on the following agreed budget.

CATEGORY	DOLLARS
Salaries and Wages	\$156,000
Goods and Services	\$92,000
Construction Contracts	\$468,000
<b>TOTAL</b>	<b>\$716,000</b>

City of Chehalis, shall be allowed to move amounts not to exceed ten percent of any object or expenditure total between objects. However, no change or transfer can be made that would have the effect of increasing the total budget. Budget changes in excess of this ten percent may be made only upon the written approval of both parties to this Agreement.

#### **BILLING AND PAYMENT**

RCO will pay City of Chehalis upon acceptance of service provided and receipt and approval of a properly completed invoice, which shall be submitted not more frequently than monthly to RCO's representative as designated in the Administration section below.

The invoice shall describe and document, to RCO's satisfaction, a description of the work performed, staff charges, any travel costs, indirect cost calculations, and fees. City of Chehalis shall also include adequate supporting documentation and include a reference to RCO Interagency Agreement Number 15-1523. If expenses are invoiced, City of Chehalis shall provide a detailed breakdown of each type.

Payment shall be considered timely if made by RCO within thirty (30) calendar days after receipt of the properly completed invoice. Payment shall be sent to the address designated by City of Chehalis.

RCO may, in its sole discretion, terminate the contract or withhold payments claimed by City of Chehalis for services rendered if City of Chehalis fails to satisfactorily comply with any term or condition of this contract.

No payment in advance or in anticipation of services or supplies to be provided under this contract shall be made by RCO.

#### **ADMINISTRATION**

The following individuals are designated as representatives of the respective parties. The representatives shall be responsible for the administration of this Agreement and for coordinating and monitoring performance under this Agreement. In the event such representatives are changed, the party making the change shall notify the other party.

City of Chehalis' representative shall be David Fleckenstein, PO Box 1344, Chehalis, WA, 98532, 360-748-1230, [dfleckenstein@ci.chehalis.wa.us](mailto:dfleckenstein@ci.chehalis.wa.us) or his successor.

RCO's representative shall be Scott Robinson, PO Box 40917, Olympia, WA 98504-0917, 360-902-0207, [scott.robinson@rco.wa.gov](mailto:scott.robinson@rco.wa.gov) or his successor.

**DISPUTES**

Disputes arising under this Agreement shall be resolved by a panel consisting of one representative from RCO, one representative from City of Chehalis, and a mutually agreed upon third party. The dispute panel shall thereafter decide the dispute with the majority prevailing. Neither party shall have recourse to the courts unless there is a showing of noncompliance or waiver of this section.

**TERMINATION**

Either party may terminate this Agreement upon thirty (30) days written notice to the other party. In the event of termination of this Agreement, the terminating party shall be liable only for performance rendered prior to the effective date of termination.

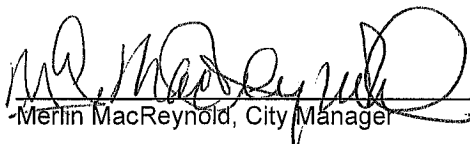
**CHANGES, MODIFICATIONS AND AMENDMENTS**

This Agreement may be waived, changed, modified, or amended only by written agreement executed by both parties hereto.

**EXECUTION**

We, the undersigned, agree to the terms of the foregoing Agreement.

**CITY OF CHEHALIS**

  
Merlin MacReynold, City Manager

9/30/2015  
Date

**STATE OF WASHINGTON  
RECREATION AND CONSERVATION OFFICE**

  
Scott Robinson, Deputy Director

10/6/15  
Date

**RECEIVED**

OCT - 5 2015

WA STATE  
RECREATION AND CONSERVATION OFFICE

## Updated 2015-17 Small Projects Recruitment Form

## Chehalis River Basin Flood Relief

**What are small projects?** -- In general, small projects are those projects that provide predominantly localized benefit, are capable of being completed within the funding cycle, are supported by the jurisdiction within which the project is proposed, and are vetted and advanced through the Chehalis River Basin Flood Authority's Chehalis Basin Projects Committee

**Instructions:**

- a. Please submit updated project requests (via this form) to Scott Boettcher ([scottb@sbgh-partners.com](mailto:scottb@sbgh-partners.com)) no later than 5:00 p.m. June 11, 2015.
- b. In particular, we are interested in updates to Project Timeline (#7), Project Cost and Funding (#8), and Completion and Doability (Part III); however notable updates to other sections of the form are welcome too.
- c. Projects being asked for scope and budget updates can be found here -- [https://www.ezview.wa.gov/Portals/1492/images/2015-17%20Small%20Projects%20-%2010152014\(2\)\(1\).pdf](https://www.ezview.wa.gov/Portals/1492/images/2015-17%20Small%20Projects%20-%2010152014(2)(1).pdf).

Part I General	
1. <b>Date:</b>	June 9, 2015 <i>updated 17 SEP 15</i>
2. <b>Project Name:</b>	Airport Storm Water Pump Station
3. <b>Project Location</b> -- Please identify the location of the project as precisely as possible, preferable with latitude/longitude coordinates.	Chehalis Airport & Levee
4. <b>Project Contact</b> -- Please identify who will be responsible for overseeing and managing the project (i.e., name, email, telephone number, etc.).	<del>Dennis Osborn</del> <i>David Fleckenstein</i> <del>doshorn@ci.chehalis.wa.us</del> <i>dfleckenstein@ci.chehalis.wa.us</i> <del>360-345-2227</del> <i>(360) 748-1230</i>
5. <b>Lead Organization</b> -- Please identify the lead organization, agency, entity, etc. responsible for this project.	City of Chehalis

<b>Part II</b> <b>Description, Timing and Cost</b>	
6. <b>Project Description</b> -- Please describe the project, what it is intended to accomplish, and the benefits that will accrue and to whom.	Replace Airport Storm Water Pump Station
7. <b>Project Timeline</b> -- Please describe the overall timeline for completion of the project as well any interim stages or phases.	Design & Permitting 2015/2016 and construction 2017
8. <b>Project Cost and Funding</b> -- What is the cost of this project? What are the on-going maintenance and operation requirements? Is it clear who will be responsible for on-going maintenance and operations costs?	\$716,000.00. The City of Chehalis Airport Division will be responsible for the maintenance of the pump. Operation cost would be utility expenses and maintenance cost. This is currently built into the city budget as we have an existing pump that needs replaced. The funding source is the Flood Authority for capitol.
9. <b>Other Funding</b> -- Please explain the extent to which other funding sources or funding partners are available.	City of Chehalis for operation and maintenance.
<b>Part III</b> <b>Completion and Doability by June 30, 2017</b>	
10. <b>Project Completion</b> -- Does the funding requested complete (or substantially complete) a project that has already been started? If so, please explain.	Yes, it replaces a pump that is aged. The new design has a redundancy pump in case the primary pump fail sin an event.
11. <b>Project Doable</b> -- Can this project or the stage/phase for which funding is sought be completed by June 30, 2017?	Yes
12. <b>Project Impacts</b> -- Please identify how any project impacts will be mitigated and if that mitigation will be accomplished by June 30, 2017?	Mitigation will be identified through the permitting stages. The project itself mitigated the impact of a flood event.
<b>Part IV</b> <b>Benefits Stated and Quantified</b>	
13. <b>Emergency Response</b> -- Please explain how this project enhances our ability to respond in a flood emergency (e.g., does it keep critical access roads, transportation facilities, etc.	The pump helps push flood waters out of the impacted commercial area behind the levee at the airport.

open and functional.)	
14. <b>Essential Infrastructure Protection</b> -- Please explain how this project protects essential infrastructure (as well the risks or consequences of not acting this funding cycle).	The pump will help protect the airport and commercial facilities and its associated infrastructure behind the airport levee. The infrastructure includes roads, utilities, and the airport itself.
15. <b>Public Health, Safety and Welfare</b> -- Please explain how this project protects public health, safety and welfare.	The pump replacement will help reduce impacts of flooding for the Airport and business property owners in the City of Chehalis.
16. <b>Residential, Commercial and/or Agricultural Protection</b> -- Please explain how this project protects residential, commercial and/or agricultural interests and communities and the benefits of acting (or consequences of not acting) this funding cycle. Consider factors like number of structures at risk, number of people at risk, historic frequency of flood damage, magnitude of benefit to be gained for the cost, etc.).	In particular the impacts for the airport are not only a local economic issue but, impacts operations of connecting airports as well as critical commercial operations to the region.
17. <b>Other Project Impacts</b> -- Please explain how this project impacts or is potentially impacted by another project.	This project is tied to phase II of the levee around the airport.
18. <b>Anything Else</b> -- Please feel free to offer any additional information (e.g., photos, maps, drawings, etc.) that would be helpful to better understand the scope, timeline and benefits of this project.	This project along with the phase II of the levee project continues to protect the Airport and the business located behind the levee.

September 5, 2014

Allyn Roe  
Centralia-Chehalis Airport  
PO Box 1344  
Chehalis, WA 98532

Re: Airport Storm Water Pump Station – Project Permitting and Cost Estimate  
RBE No. 14014

Dear Allyn:

Below is a summary of the permits required and an estimated design and construction costs to replace the aging storm pump station. I noticed an article in the Chronicle that the Flood Authority is looking for projects for the 2015 – 2017 budget cycles. I believe this project would be a candidate for that funding.

#### **Permitting**

The following permitting is needed to receive approval to replace the existing storm water pump station and is processed through the JARPA application. The permitting review process would take approximately 6 to 8 months to complete. Ecological Land Services has already completed a biological analysis as part of the levee project for the area. Below are the anticipated environmental permits needed for this project.

SEPA Environmental Checklist

Ecology 401 Certification

Corp Section 10

WDFW HPA for work below the Ordinary High Water Mark.

The following permits will be required from the City of Chehalis.

Building Permit

Grading Permit

#### **Concrete Wet Well Structure and Pump Support – Square or Round Structure**

The existing pump station was likely built on piles for ease of elevating the pumps and pump house above the design water elevation. Based on my knowledge of the soils in this area I don't expect that piles will be needed for the foundation slab for the recommended concrete box wet well or concrete circular wet well design. Some over excavation for the foundation support will be needed and backfilled with structural rock. The new wet well structure will need to extend upwards of 30 feet above the existing grade to elevate the pumps above the flood of record. Challenges with elevating the pump motors are that the discharge flange also gets elevated. We would need to plumb the new 24 inch discharge pipe using 45 degree bends down to the existing elevation piping. Concrete foundation support structures will be needed for this pipe work to handle the large thrust loads on the joints during pump operation. The wet well structure foundation will also be large due to height and associated overturning design requirements, so the footprint of the structure will be larger. I spoke with David Flack at Triangle Pump regarding a submersible style pump motor and he did not have an option for this condition. The top of the concrete wet well structure would be a concrete slab with perimeter railing along with the control panels and power disconnect service. The floor elevation of this structure

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CivilPros@RBEngineers.com

14014 summary ltr

will be a minimum of 13 feet higher than the current pump house building floor to get the motors above the flood of record flood elevation.

#### **Control Panel and Generator**

The cost estimate below includes an estimate from Triangle Pump for a dual pump soft start control panel to run the 50 HP pumps. The second pump would be for redundancy only. A second discharge pipe through the dike would be needed to run both pumps simultaneously. To make serving the generator easier, we should look at locating that on the existing dike with an elevated stand to get it above the record flood elevation. This will allow easier access for maintenance and re-fueling.

#### **Estimated Pump Station Construction Costs - \$624,000**

Attached is a preliminary construction estimate to replace the existing storm water pumping station that includes new concrete foundation, concrete wet well, two new storm water pumps, elevated controls and emergency generator and telemetry for remote monitoring. This estimate is preliminary in nature and once a conceptual design and permitting requirements were completed we would be able to fine tune the estimate.

#### **Estimated Consultant Design Costs - \$92,000**

The project will include the following disciplines to complete the design and permitting for replacing the pump station with a new facility. Challenges for design include the environmental permitting and accessing the site for the geotechnical work. I anticipate a tracked drill rig will be needed along with a temporary access road constructed to the area along with coffer dams and de-watering. There is currently standing water around the pump station at this time even with the dry summer we are experiencing. The preliminary estimates below include design and construction services throughout the project and are based on my discussion of the conceptual design outlined in this letter with my sub-consultants.

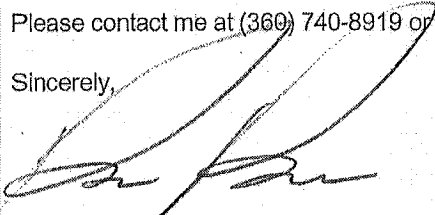
Civil Engineering – Project Management, Grading, Construction Plan Preparation and Permitting  
Environmental Biologist Consultant – Environmental Permitting  
Electrical Engineering Design - Pump Controls and Panel Design  
Structural Design Engineering – New Concrete Wet Well and Equipment Support Structure Design  
Geotechnical Engineering – Geotechnical Report for new foundation design

#### **Recommendation**

If the Airport has available funding, I would recommend that a conceptual design phase begin along with the environmental permitting process. Once we get a conceptual design on paper and permit requirements resolved we can shore up the construction and design cost estimate and have necessary documents for use in future funding opportunities.

Please contact me at (360) 740-8919 or [robertb@RBEngineers.com](mailto:robertb@RBEngineers.com) if you have any questions.

Sincerely,



Robert W. Balmelli PE  
President

Enclosures: Preliminary Construction Estimate  
Rough Sketch of Pump System Profile

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14014 summary ltr



# Airport Stormwater Pump Station Engineers Preliminary Construction Estimate.

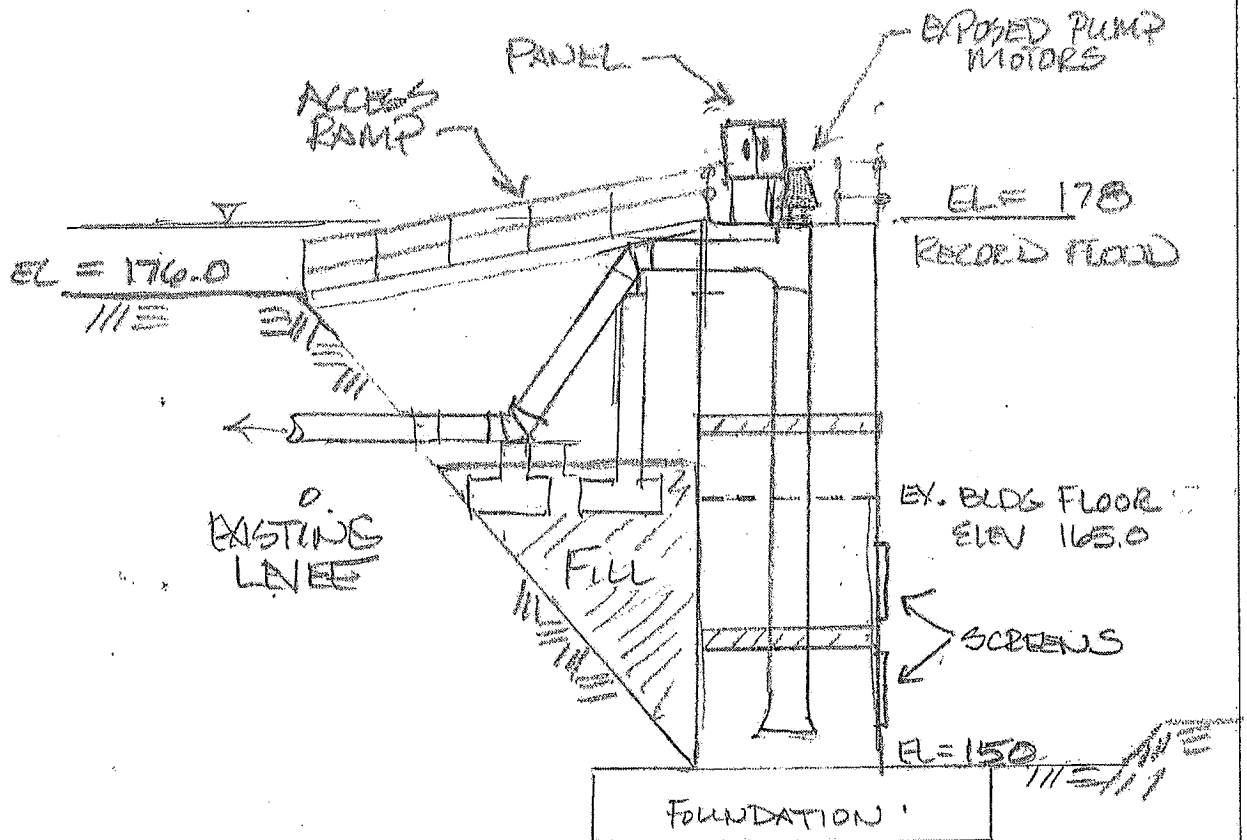
Item #	Item	Unit	Qty.	Unit Price	Total Cost
	<b>MOBILIZATION/EROSION CONTROL</b>				
	Mobilization	LS	1	\$10,000.00	\$10,000.00
	Construction Entrance	EA	1	\$2,500.00	\$2,500.00
	Silt Fence	LF	1000	\$6.50	\$6,500.00
	Straw Waddles	LS	1	\$200.00	\$200.00
	<i>Sub-Total Mobilization/Erosion Control:</i>				\$19,200.00
	<b>TRAFFIC CONTROL</b>				
	Traffic Control Labor	HR	40	\$30.00	\$1,200.00
	Traffic Control Signs	LS	1	\$2,000.00	\$2,000.00
	<i>Sub-Total Traffic Control:</i>				\$3,200.00
	<b>PREPARATION/REMOVAL</b>				
	Install Access Road for Construction access.	LS	1	\$18,000.00	\$18,000.00
	Dewatering System	LS	1	\$12,000.00	\$12,000.00
	Demo Existing Structure, cut off piling	LS	1	\$9,000.00	\$9,000.00
	<i>Sub-Total Preparation/Removal:</i>				\$39,000.00
	<b>WATER</b>				
	50 HP Cascade Storm Pumps and Motors	EA	2	\$52,000.00	\$104,000.00
	Ductile Iron Pipe, CL 50 for Water Main 24 in. Diam.	LF	20	\$250.00	\$5,000.00
	24" Check Valves and Installation	EA	2	\$5,000.00	\$10,000.00
	Misc. 24" Fittings	EA	3	\$1,500.00	\$4,500.00
	<i>Sub-Total Water:</i>				\$123,500.00
	<b>CONCRETE FOUNDATION/STEEL STRUCTURE</b>				
	Concrete Foundations Slab and Rock Backfill	LS	1	\$40,000.00	\$40,000.00
	Piping Foundation and Wet Well Vault	LS	1	\$90,000.00	\$90,000.00
	Structural Steel support Platforms	LS	2	\$22,000.00	\$44,000.00
	<i>Sub-Total Paving/Concrete:</i>				\$174,000.00
	<b>ELECTRICAL</b>				
	3 Phase 480V Service Disconnect and Labor	LS	1	\$26,000.00	\$26,000.00
	Pump Controllers - 50 HP Soft Start	LS	1	\$24,000.00	\$24,000.00
	Generator and Controls and Stand	LS	1	\$45,000.00	\$45,000.00
	<i>Sub-Total Electrical Improvements:</i>				\$95,000.00
	<b>PLATFORM IMPROVEMENTS</b>				
	Platform Railing and Stairs Access Ramp	LS	1	\$24,000.00	\$24,000.00
	Signing, lighting and Security	LS	1	\$8,000.00	\$8,000.00
	<i>Sub-Total Landscape/Irrigation:</i>				\$32,000.00
	<b>MISC.</b>				
	Project Administration	LS	1	\$15,000.00	\$15,000.00
	Insurance and Bonding	LS	1	\$10,000.00	\$10,000.00
	<i>Sub-Total Misc.:</i>				\$25,000.00
	<b>ENGINEERING/SURVEYING</b>				
	Design Engineering - Civil/Structural/M&E/Geotechnical	LS	1	\$58,000.00	\$58,000.00
	Survey Topo	LS	1	\$5,000.00	\$5,000.00
	Construction Engineering (Bid Tender, Inspection, as-bui management etc.)	LS	1	\$29,000.00	\$29,000.00
	<i>Sub-Total Engineering:</i>				\$92,000.00
	<i>Subtotal Project:</i>				\$602,900.00
	<i>Contingency Allowance 10%</i>				\$60,290.00
	<i>Sales Tax (8%):</i>				\$53,055.20
	<b>TOTAL PROJECT COST:</b>				\$716,245.20

RBE 1/10/14

9-5-14

AIRPORT STOPWATER  
PUMP STATION CONCEPT

NTS



ELEVATIONS: NGVD 29