

## **ORDINANCE NO. 185886**

Authorize Intergovernmental Agreements with the University of Washington and the University of Idaho to model the hydrologic effects of climate change on the Bull Run watershed under the Pilot Utility Modeling Application project (Ordinance)

The City of Portland ordains:

Section 1. The Council finds:

1. The Portland Water Bureau is committed to understanding the challenges imposed on its water system by climate change and developing and implementing actions to adapt and mitigate for these impacts.
2. The Water Utility Climate Alliance (WUCA) is a coalition of ten public water agencies formed in 2008 with a mission to “provide leadership in assessing and adapting to the potential effects of climate change through collaborative action, enhance the usefulness of climate science for the adaptation community, and improve water management decision-making in the face of climate uncertainty.” Portland has been a member of WUCA since its inception in 2008.
3. As part of WUCA work activities, a Pilot Utility Modeling Application (PUMA) project was begun in 2010 with the City of Portland as one of five case studies. The initial aspects of this study were funded by the NW Climate Impacts Research Consortium (CIRC) through a National Oceanic and Atmospheric Administration grant. The actual application of academic climate change research to the case studies of the five WUCA members participating was to be provided by those benefiting from the research specifically.
4. The Bull Run watershed was studied for climate change in 2002 by the University of Washington. More recent and detailed climate change global modeling and hydrologic downscaling of data will both validate and improve the nature of the analysis of climate change to the watershed. In addition, the PUMA work will provide a modeling tool to the watershed that currently is not available.
5. The PUMA project will be conducted through two Intergovernmental Agreements. The first IGA is with the University of Washington (Exhibit A) and will evaluate, recommend, and develop a hydrologic model for the Bull Run watershed which will allow downscaled climate data from multiple global climate models to run, creating synthesized stream flows for different future scenarios under climate change conditions. The second IGA is with the University of Idaho (Exhibit B) and will create and assist the Water Bureau in analyzing many different global climate model data sets at scales relevant to the Bull Run. These data sets will be run through the hydrologic model. Both IGAs have detailed scopes of work and will result in reports useful to the Water Bureau in further analyzing the impacts of climate change on the watershed and within the larger context of the water system supplies and demands for the future.

6. The two IGAs will result in ownership and management of a tool that will be of use in future studies of the Bull Run to study climate change impacts on supplies and potential shifts in vegetation and fire risk.
7. The work conducted under these IGAs will become part of a larger study by WUCA that will lay out all of the case studies and link to ongoing national academic research on understanding climate change and its impacts on municipal water supplies.
8. It is important for Portland to have this work conducted as expeditiously as possible to keep pace with the four other PUMA project members so the total final project report can be conducted. The final report work has already been funded by the full WUCA membership.

NOW, THEREFORE, the Council directs:

- a. That the Water Bureau Administrator is authorized to execute on behalf of the City: (1) An IGA with the University of Washington, substantially in accordance with the agreement attached as Exhibit A in the amount of \$75,000; and (2) An IGA with the University of Idaho, substantially in accordance with the agreement attached as Exhibit B in the amount of \$25,000. This action will authorize work under the title Pilot Utility Modeling Application (PUMA).
- b. The Mayor and City Auditor are hereby authorized to pay for the contracts from the Water Fund.
- c. Amendments increasing the total compensation of the Intergovernmental Agreement may be agreed to and executed by the Water Bureau Administrator up to fifteen percent of the total contract amount. Any increase exceeding fifteen percent of the total compensation would need City Council approval.

Passed by the Council,

FEB 13 2013

Commissioner Novick  
Lorna Stickel  
January 16, 2013

**LaVonne Griffin-Valade**  
Auditor of the City of Portland

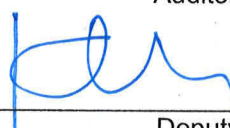

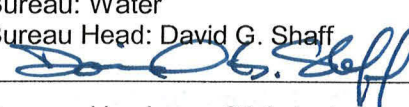
By  Deputy

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Agenda No.  
**ORDINANCE NO. 185886**  
Title

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<b>INTRODUCED BY</b> Commissioner/Auditor: <b>Commissioner Novick</b>	CLERK USE: DATE FILED <b>FEB 01 2013</b>
<b>COMMISSIONER APPROVAL</b>	LaVonne Griffin-Valade Auditor of the City of Portland
Mayor—Finance and Administration - Hales	By:  Deputy
Position 1/Utilities - Fritz	
Position 2/Works - Fish	
Position 3/Affairs - Saltzman	
Position 4/Safety - Novick 	
<b>BUREAU APPROVAL</b>	<b>ACTION TAKEN:</b>
Bureau: Water	<b>FEB 06 2013 PASSED TO SECOND READING FEB 13 2013 9:30 A.M.</b>
Bureau Head: David G. Shaff 	
Prepared by: Lorna Stickel Date Prepared: January 16, 2013	
Financial Impact & Public Involvement Statement Completed <input checked="" type="checkbox"/> Amends Budget <input type="checkbox"/>	
Portland Policy Document If "Yes" requires City Policy paragraph stated in document. Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Council Meeting Date <b>February 6, 2013</b>	
<b>City Attorney Approval:</b> required for contract, code, easement, franchise, comp plan, charter	

<b>AGENDA</b>
<b>TIME CERTAIN</b> <input type="checkbox"/> Start time: _____
<b>Total amount of time needed:</b> _____ (for presentation, testimony and discussion)
<b>CONSENT</b> <input checked="" type="checkbox"/>
<b>REGULAR</b> <input type="checkbox"/> <b>Total amount of time needed:</b> _____ (for presentation, testimony and discussion)

FOUR-FIFTHS AGENDA	COMMISSIONERS VOTED AS FOLLOWS:		
		YEAS	NAYS
1. Fritz	1. Fritz	<input checked="" type="checkbox"/>	
2. Fish	2. Fish	<input checked="" type="checkbox"/>	
3. Saltzman	3. Saltzman	<input checked="" type="checkbox"/>	
4. Novick	4. Novick	<input checked="" type="checkbox"/>	
Hales	Hales	<input checked="" type="checkbox"/>	