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JAN 16 2015

DEPARTMENT OF
WATER RESOURCES

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**BEFORE DEPARTMENT OF WATER RESOURCES
STATE OF IDAHO**

IN THE MATTER OF THE SECOND
MITIGATION PLAN FILED BY THE
COALITION OF CITIES FOR THE
DISTRIBUTION OF WATER TO WATER
RIGHT NOS. 36-02551, 36-07694 &
36-15501, IN THE NAME OF RANGEN, INC.

**CM-MP-2014-004
CM-MP-2014-007
CM-DC-2011-004
CM-DC-2014-004**

IN THE MATTER OF DISTRIBUTION OF
WATER TO WATER RIGHT NOS. 36-02551
& 36-07694 (RANGEN, INC.)
IN THE MATTER OF DISTRIBUTION OF
WATER TO WATER RIGHT NOS.
36-00134B, 36-00135A, AND 36-15501

**AFFIDAVIT OF CHRISTIAN PETRICH
IN SUPPORT OF COALITION OF
CITIES' PETITION FOR
RECONSIDERATION AND/OR
CLARIFICATION OF THE FINAL
ORDER CONDITIONALLY
APPROVING CITIES' SECOND
MITIGATION PLAN AND REQUEST
FOR STAY**

IN THE MATTER OF DISTRIBUTION OF
WATER TO WATER RIGHT NOS. 36-02551 &
36-07694 (RANGEN, INC.)

STATE OF IDAHO)
):ss.
COUNTY OF ADA)

CHRISTIAN PETRICH, being first duly sworn deposes and says:

1. I have been employed by the Coalition of Cities to assist them in the above listed matters and am familiar with the pleadings and documents filed in this case.
2. I have investigated and am familiar with the water rights held by all members of the Coalition of Cities.

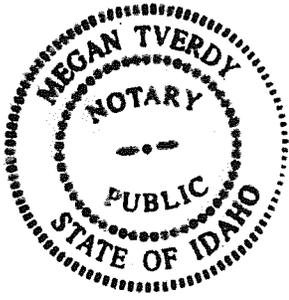
3. The depletive amount that will occur at the Curren Tunnel as a result of depletions by Coalition cities Carey, Heyburn, and Richfield under water rights with priority dates on or junior to August 12, 1973 is 0.001 cfs (0.45 gpm) during the first year of pumping and 0.015 cfs (6.73 gpm) under steady-state conditions. Withdrawals for consumptive uses by the remaining Coalition cities (Bliss, Burley, Declo, Dietrich, Gooding, Hazelton, Jerome, Paul, Rupert, Shoshone, and Wendell) can be allocated to water rights with priority dates senior to August 12, 1973.
4. The 1,500 acre-feet of recharge at the Gooding Recharge Site proposed for 2015 will exceed the aggregate depletive amount under the Coalition of Cities' junior water rights (approximately 836 AFA). The first-year benefit of recharge at the Gooding Recharge Site is simulated to be 0.006 cfs (2.69 gpm). The simulated recharge benefit is approximately six times the 0.001-cfs (0.45 gpm) first-year impact at the Rangen facility from Coalition cities' depletions under post-August 12, 1973 water rights.
5. The Gooding Recharge Site is substantially closer to the Rangen facility than the location of depletions at Carey, Heyburn, and Richfield. Proximity of the recharge site to the Rangen facility, and recharge in excess of aggregate post-August 12, 1973 Coalition depletions, means that the benefits of Coalition cities' recharge will quickly exceed that of Coalition cities' depletions during the first year.
6. Groundwater withdrawals for cities and industrial areas are represented in the Eastern Snake Plain Aquifer Model (ESPAM 2.1) calibration runs (IDWR, 2013). However, curtailment of municipal use was not simulated in the curtailment simulations made in preparation of the Rangen orders (Allan Wylie, personal communication, April 18, 2014 and July 18, 2014). Thus, any benefits accruing from either curtailment of municipal rights or mitigation in lieu of curtailment of municipal rights will provide benefits to the Rangen facility over and above those calculated by IDWR as necessary to satisfy the Rangen delivery call.
7. The above-described conclusions are based on an analysis of Coalition cities' water rights, analysis of consumptive and non-consumptive use by Coalition members, and on simulation of depletive impacts using the transient, superposition, 150-year version of ESPAM 2.1.

FURTHER YOUR AFFIANT SAYETH NAUGHT.

DATED this 16th day of January, 2015.


Christian Petrich, Ph.D., P.E., P.G.

SUBSCRIBED AND SWORN to before me this 16th day of January, 2015.



Megan Tverdy
Notary Public in and for the State of Idaho
My Commission Expires: 6/25/19

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that on this 14th day of January, 2015, I served a true and correct copy of the foregoing document on the person(s) whose names and addresses appear below by the method indicated:

Director Gary Spackman IDAHO DEPARTMENT OF WATER RESOURCES PO Box 83720 Boise, ID 83720	<input type="checkbox"/> US Mail, Postage Paid <input type="checkbox"/> Facsimile <input checked="" type="checkbox"/> Hand-Delivered <input type="checkbox"/> Electronic Mail
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