



State of Idaho

**DEPARTMENT OF WATER RESOURCES**

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C.L. "BUTCH" OTTER  
Governor

GARY SPACKMAN  
Director

October 12, 2012

Re: Rangen, Inc. Delivery Call  
Docket No. CM-DC-2011-004

Dear Parties,

Enclosed is information delivered to the Director by Chuck Brockway upon completion of the Status Conference on October 10, 2012, in this matter. I am forwarding this information to you as a party to avoid any ex parte communications.

Sincerely,

A handwritten signature in black ink that reads "Gary Spackman". The signature is written in a cursive style with a long, sweeping underline.

Gary Spackman  
Director

cc: Parties (w/encl.)

## ESPAM 2.0 - Steady State Estimate of Mud Lake Error

Analysis was performed using the fully populated ESPAM 2.0 model in Steady State  
 IDWR reported an excess water budget value of approximately 131,000 acft/year near Mud Lake  
 Error distributed among 189 model cells near Mud Lake (-82,662.234 ft<sup>3</sup>/day/cell)  
 Positive values indicate water flowing from surface water to groundwater  
 Negative values indicate water flowing from groundwater to surface water

Brockway Engineering, PLLC  
 GEP - 10/9/2012

Reach	Model E120116A008 with Mud Lake Error	Model E120116A008 w/out Mud Lake Error	Difference
A-R	160.8 cfs	202.9 cfs	42.1 cfs
H-S	1,000.3 cfs	1,047.5 cfs	47.2 cfs
S-NB	650.9 cfs	674.9 cfs	24.0 cfs
NB-N	-2,074.9 cfs	-2,012.3 cfs	62.6 cfs
N-M	-10.0 cfs	-9.4 cfs	0.6 cfs
DW-B	-807.9 cfs	-806.6 cfs	1.3 cfs
B-TS	-1,350.3 cfs	-1,348.9 cfs	1.4 cfs
TS	-774.7 cfs	-774.1 cfs	0.6 cfs
TS-M	-184.5 cfs	-184.1 cfs	0.4 cfs
M	-1,060.9 cfs	-1,060.5 cfs	0.4 cfs
M-B	-137.4 cfs	-137.4 cfs	0.0 cfs
			180.6 cfs
			130,859 acft/year

**Model E120116A008 with Mud Lake error**  
**Model Cell 42, 13**

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1720124 cfd  
 19.91 cfs

**Model E120116A008 without Mud Lake error**  
**Model Cell 42, 13**

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1704292.625 cfd  
 19.73 cfs

**Model E120116A008 with Mud Lake error and  
 with Rangen Curtailment**  
**Model Cell 42, 13**

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3277639.75 cfd  
 37.94 cfs

**Model E120116A008 without Mud Lake error  
 and with Rangen Curtailment**  
**Model Cell 42, 13**

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3262129.75 cfd  
 37.76 cfs

**Difference**

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18.027 cfs

**Difference**

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18.031 cfs