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RECEIVED

MAR 16 2011

WATER RESOURCES  
WESTERN REGION

March 16, 2011

Steve Lester  
Idaho Department of Water Resources  
2735 Airport Way  
Boise, ID 83705

RE: Boschma POD Transfer 77093

Dear Mr. Lester:

In an e-mail dated March 10, 2011, you requested additional information to confirm the beneficial use of water right 63-20469, owned by Steve Boschma at the Lone Pine Dairy. Recall that Mr. Boschma also owns water rights nos. 63-9103D, 63-4498, and 63-31584.

Discussions with Mr. Boschma concluded that there are no flow meters available. Mr. Boschma provided an affidavit regarding the use of water and the herd size he has maintained (see Attachment A).

Figures 1, 2 and 3 show the Lone Pine Dairy in years 2004, 2006, and 2009, respectively. The images show land use and activity consistent with Mr. Boschma's statement that the dairy operation includes the adjoining "Taylor Place" and the "Home Place."

Based on the herd size described in Mr. Boschma's affidavit, conversations about commercial uses, and the Idaho Department of Water Resources' Dairy Requirements Worksheet, the annual stockwater and commercial demand at the dairy is approximately 71 acre-feet, not including domestic use (see Attachment B). The total annual volume of water authorized by the four water rights appurtenant to the property is 73 acre-feet.

Mr. Boschma's also states that the three wells on site contain a 7.5 hp, 3 hp, and ¾ hp pump. Using equation 1, with a lift of 100 feet plus a pressure of 35 psi, the theoretical discharge rate from each well is approximately 0.26, 0.10, and 0.03 cfs, respectively, which is a total of 0.39 cfs. The total combined diversion rate on the property is 0.35 cfs. Portions of the distribution system discharge directly to stockwater tanks and therefore do not have the back pressure assumed in the calculation and lead to an even higher discharge rate.

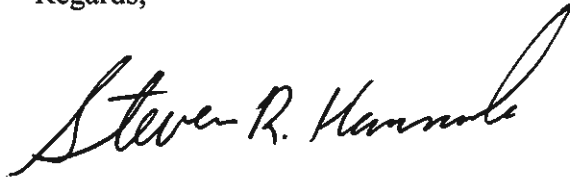
$$Q \frac{\text{ft}^3}{\text{sec}} = \frac{\text{hp} * \text{efficiency} * 8.814}{\text{TotalDynamicHead}} = \frac{\text{hp} * 0.7 * 8.814}{100 \text{ ft}(\text{lift}) + 81 \text{ ft}(\text{pressure})} \quad \text{equation 1}$$

*Additional information  
e beneficial use*

Please consider these responses to demonstrate that the Lone Pine Dairy is fully using all of the water rights and that the application for transfer can continue to be processed.

If you have any questions, please call Steve Hannula at 373-7983.

Regards,

A handwritten signature in black ink that reads "Steven R. Hannula". The signature is written in a cursive style with a large, looping initial "S".

Steven R. Hannula

**ATTACHMENT A**

**Affidavit of Stephen Boschma**

BEFORE THE DEPARTMENT OF WATER RESOURCES  
OF THE STATE OF IDAHO

Regarding Water Right  
No. 63-20469

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)  
)  
)  
)  
**AFFIDAVIT OF STEPHEN BOSCHMA**

STATE OF IDAHO            )  
                                  ) ss.  
COUNTY OF CANYON    )

Stephen Boschma, being first duly sworn upon oath, deposes and says:

1. I am over the age of 18 years and make this affidavit based upon personal information.
2. I am a partner of the Lone Pine Dairy located in Kuna, Idaho.
3. My wife Deborah and I have owned water right 63-20469 and dairy to which it is appurtenant, since 2002; known as the "old Taylor Place."
4. I am the current owner of water right nos. 63-4498, 63-9103D, and 63-31584 all appurtenant to the dairy I have owned prior to 2002; known as the "Home Place."
5. The old Taylor Place and the Home Place are now operated as a single dairy and have operated that way continuously since 2002.
6. Because we have continuously operated the dairy with 1400 milking cows, 200 dry cows, and 500 heifers it was never our intent to abandon or forfeit any portion of any water right.
7. The three wells on the property include a 7.5 horsepower (hp), 3 hp, and a ¾ hp pump

and depth to water was measured at 78 feet in April 2010.

DATED this 16 day of March 2011.

  
Stephen Boschma

SUBSCRIBED AND SWORN to before me this 16 day of March 2011.



  
Notary Public in and for the State of Idaho  
Residing at: Boise  
My Commission Expires: 8-18-11

**ATTACHMENT B**  
**Dairy Requirement Worksheet**

## DAILY FRESH WATER REQUIREMENT FOR DAIRY FACILITY

FOR: Lone Pine Dairy  
BY: Steven Hannula  
DATE: 3/2/2011

### STOCKWATER VOLUME REQUIREMENT

| TYPE OF ANIMAL       | NUMBER | USE/DAY GAL/DAY | TOTAL GAL/DAY | TOTAL GAL/YEAR    |
|----------------------|--------|-----------------|---------------|-------------------|
| MILKING COWS         | 1,400  | 35              | 49,000        | 17,885,000        |
| DRY COWS             | 200    | 12              | 2,400         | 876,000           |
| HEIFERS              | 500    | 12              | 6,000         | 2,190,000         |
| <b>TOTAL GALLONS</b> |        |                 | <b>57,400</b> | <b>20,951,000</b> |

STOCKWATER ANNUAL VOLUME NEEDED (AFA) 64.30

### COMMERCIAL VOLUME REQUIREMENT

#### MISTERS ESTIMATE

| GPH  | NUMBER OF NOZZLES | TIME PER USE(IN HOURS) | NUMBER OF USES PER DAY | TOTAL GAL/DAY | TOAL GAL/YEAR |
|------|-------------------|------------------------|------------------------|---------------|---------------|
| 2.00 | 600               | 10                     | 1                      | 12,000        | 1,440,000     |

#### MILKING PARLOR ESTIMATES

| ITEM                         | GALS/OP | X'S/DAY | GALS/DAY     | GALS/YEAR      |
|------------------------------|---------|---------|--------------|----------------|
| BULK TANK                    | 0       | 0       | 0            | 0              |
| COW PREP                     | 0.00    | 0       | 0            | 0              |
| PIPELINES                    | 500     | 2       | 1,000        | 365,000        |
| CLEANUP                      | 300     | 2       | 600          | 219,000        |
| <b>TOTAL MILK PARLOR USE</b> |         |         | <b>1,600</b> | <b>584,000</b> |

**MISCELLANEOUS USES**

| ITEM                            | GALS/OP | X'S/DAY | GALS/DAY | GALS/YEAR |
|---------------------------------|---------|---------|----------|-----------|
| TOWEL WASHING                   | 50      | 4       | 200      | 73,000    |
| EMPLOYEE SHOWERS<br>& RESTROOMS | 50      | 0       | 0        | 0         |
| MAINTENANCE SHOP                | 250     | 0       | 0        | 0         |
| <b>TOTAL MISCELLANEOUS USES</b> |         |         | 200      | 73,000    |

**COMMERCIAL ANNUAL VOLUME NEEDED (AFA)**

6.44

|                                         |              |
|-----------------------------------------|--------------|
| <b>STOCK WATER VOLUME REQUIREMENT =</b> | <b>64.30</b> |
| <b>COMMERCIAL REQUIREMENT =</b>         | <b>6.44</b>  |
| <b>TOTAL VOLUME REQUIRED =</b>          | <b>70.73</b> |



Canyon County, Idaho

Image Source: NAIP 2004

0 250 500  
Feet

## Legend

Property



Figure 1  
2004 Image of Boschma Property

Prepared for: IDWR  
Date: Mar 15, 2011

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Canyon County, Idaho

Image Source: NAIP 2006

0 250 500  
Feet

## Legend

Property



Figure 2  
2006 Image of Boschma Property

Prepared for: IDWR  
Date: Mar 15, 2011

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Canyon County, Idaho

Image Source: NAIP 2009

0 250 500  
Feet

### Legend

Property



Figure 3  
2009 Image of Boschma Property

Prepared for: IDWR  
Date: Mar 15, 2011

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