

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
**APPLICATION FOR PERMIT**  
To appropriate the public waters of the State of Idaho  
No. 45-14516

**RECEIVED**  
**FEB 27 2019**  
DEPT OF WATER RESOURCES  
SOUTHERN REGION

**1. Applicant(s)**

ALAN H ANDERSEN  
488 RIVERSIDE DR  
BURLEY ID 83318-5419  
208-221-7969

AND/OR NORMA ANDERSEN  
488 RIVERSIDE DR  
BURLEY ID 83318-5419  
208-678-6946

**2. Representative(s) N/A****3. Source of Water Supply:**

Source : DUCK CREEK

Tributary: SNAKE RIVER

**4. Location of Point(s) of Diversion:**

| Heading                          | Point of Diversion # 1                                       | Point of Diversion # 2            | Point of Diversion # 3            |
|----------------------------------|--------------------------------------------------------------|-----------------------------------|-----------------------------------|
| Source                           | DUCK CREEK                                                   | DUCK CREEK                        | DUCK CREEK                        |
| Tributary of                     | SNAKE RIVER                                                  | SNAKE RIVER                       | SNAKE RIVER                       |
| Township                         | 10S                                                          | 10S                               | 10S                               |
| Range                            | 24E                                                          | 24E                               | 24E                               |
| Section                          | 31                                                           | 31                                | 31                                |
| Govt. Lot                        | 1                                                            | 1                                 | 1                                 |
| QQQ/QQ/Quarter                   | NE $\frac{1}{4}$ NW $\frac{1}{4}$                            | NE $\frac{1}{4}$ NW $\frac{1}{4}$ | NE $\frac{1}{4}$ NW $\frac{1}{4}$ |
| County                           | CASSIA                                                       | CASSIA                            | CASSIA                            |
| Diversion Type                   |                                                              |                                   |                                   |
| Local name or Tag#               |                                                              |                                   |                                   |
| Type and size of devices         | excavated pool located on and adjacent to Duck Creek channel | Pump to aesthetic water feature   | pump to irrigation system         |
| Height of storage dam            |                                                              |                                   |                                   |
| Active/ Total Reservoir capacity |                                                              |                                   |                                   |
| Dam Application required?        | No                                                           | No                                | No                                |
| Proposed well diameter/ depth    |                                                              |                                   |                                   |
| Water Temp > 85°F?               |                                                              |                                   |                                   |
| Drilled Date                     |                                                              |                                   |                                   |
| Drilling firm                    |                                                              |                                   |                                   |
| Property Owner                   | Applicant                                                    | Applicant                         | Applicant                         |
| Access Arrangement               | N/A                                                          | N/A                               | N/A                               |
| Description                      |                                                              |                                   |                                   |

**5. Water will be used for the following purposes:**

| Purposes          | Season         | Rate     | Volume  | Description |
|-------------------|----------------|----------|---------|-------------|
| AESTHETIC STORAGE | 01/01 to 12/31 |          | 0.16 AF |             |
| AESTHETIC         | 01/01 to 12/31 | 0.12 CFS | AF      |             |
| IRRIGATION        | 03/15 to 11/15 | 0.04 CFS | AF      |             |

**6. Total quantity to be appropriated is (a) 0.16 cubic feet per second (cfs) and/or (b) Not Stated acre-feet / year (af).**

**7. Proposed diverting works:**

a. If an existing well, who was the well drilled for? Drilling Permit No.

**8. Describe other proposed water uses : N/A**

For Department Use

Received by A. SKINNER Date 2/27/19 Time 3:45 Preliminary check by \_\_\_\_\_  
 Fee \$ \$100.00 Receipted by A. SKINNER Receipt No. 5037176 Date 2/27/19

**9. Description of place of use:****Place of Use: AESTHETIC STORAGE**

| Twp | Rng | Sec | NE |    |    |    | NW      |    |    |    | SW |    |    |    | SE |    |    |    | No QQ | Totals |
|-----|-----|-----|----|----|----|----|---------|----|----|----|----|----|----|----|----|----|----|----|-------|--------|
|     |     |     | NE | NW | SW | SE | NE      | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE |       |        |
| 10S | 24E | 31  |    |    |    |    | X<br>L1 |    |    |    |    |    |    |    |    |    |    |    |       |        |

**Place of Use: AESTHETIC**

| Twp | Rng | Sec | NE |    |    |    | NW      |    |    |    | SW |    |    |    | SE |    |    |    | No QQ | Totals |
|-----|-----|-----|----|----|----|----|---------|----|----|----|----|----|----|----|----|----|----|----|-------|--------|
|     |     |     | NE | NW | SW | SE | NE      | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE |       |        |
| 10S | 24E | 31  |    |    |    |    | X<br>L1 |    |    |    |    |    |    |    |    |    |    |    |       |        |

**Place of Use: IRRIGATION**

| Twp | Rng | Sec | NE |    |    |    | NW        |    |    |    | SW |    |    |    | SE |    |    |    | No QQ | Totals |
|-----|-----|-----|----|----|----|----|-----------|----|----|----|----|----|----|----|----|----|----|----|-------|--------|
|     |     |     | NE | NW | SW | SE | NE        | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE |       |        |
| 10S | 24E | 31  |    |    |    |    | 0.1<br>L1 |    |    |    |    |    |    |    |    |    |    |    |       | 0.1    |

Total Acres: 0.1

**10. Describe any other water rights used for the same purposes as described above. Include water delivered by a municipality, canal company, or irrigation district. If this application is for domestic purposes, do you intend to use this water, water from another source, or both, to irrigate your lawn, garden, and/or landscaping?**

- 11.**
- Who owns the land to be irrigated or place of use?** Applicant.
  - If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing:**

**12. Describe your proposal in narrative form, and provide additional explanation for any of the items above. Attach additional pages if necessary.**

We desire to clean out a small pool on & adjacent to Duck Creek. The pool will measure approximately 25 ft in diameter with an average depth of 3 to 4 feet depending upon excavated silt depth. The pool will be located in existing open water &/or wetland area and overall evaporation from this feature should be reduced (see attached ET Idaho precipitation values for open water vs. wetland) and could be viewed as a non-consumptive use. In addition, two small pumps, will be placed with one pump providing aesthetic flow for a lined water feature approximately 45 feet long and the other pump serving a sprinkler irrigation system used to irrigate approximately 3,000 square feet of lawn. The aesthetic flow can also be considered non-consumptive (piped and lined channel). In addition, this pump will only be operated on an occasional basis (estimated at less than 150 hours per year total). The points of diversion and places of use are all located on Lot 9, Block 1, of Springdale Acres Subdivision. Water rights 45-7375 and 45-7697 allow for ½ acre of irrigation on Lot 9 from the Springdale Acres Subdivision groundwater system. This new irrigation from Duck Creek will be in combination with the ½ acre allowed by Water rights 45-7375 and 45-7697 (no more than a total of ½ acre irrigated on Lot 9).

**13. Time required for completion of works and application of water to proposed beneficial use is 2 years (minimum 1 year).**

**14. MAP OF PROPOSED PROJECT REQUIRED** - Attach an 8½" x 11" map or maps clearly identifying the proposed point of diversion, place of use, section #, township & range. The map scale shall not be less than two (2) inches equal to one (1) mile.

The information contained in this application is true to the best of my knowledge. I understand that any willful misrepresentations made in this application may result in rejection of the application or cancellation of an approval.

Signature of Applicant

  
ALAN H ANDERSEN

Signature of Applicant

  
NORMA ANDERSEN

SESW

30

SESW 2

NENW

irrigation  
Pool  
water feature  
irrigation  
2 pumps

10S24E

31

NENW 1

45-14514



# University of Idaho

Kimberly Research  
and Extension Center

[Water Resources Program](#)

*ETIdaho 2017*

## Evapotranspiration and Consumptive Irrigation Water Requirements for Idaho

Please send suggestions for  
improving this site to robison at  
uidaho dot edu

2019-02-27 12:51

*Copyright 2018, University of  
Idaho.*

### Burley FAA AP (NWS -- USW00024133)

Statistics based on thirty year normal spans 1985 to 2016 years

For a different land cover or crop click on the above link.

You can highlight this table and copy via the clipboard to a Microsoft Excel or OpenOffice spreadsheet to plot or otherwise work with this data.

| Open water - shallow systems (ponds/streams)                   |        |      |      |      |      |      |      |      |      |      |      |       |                             |                                 |        |
|----------------------------------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|-------|-----------------------------|---------------------------------|--------|
| Precipitation Deficit <a href="#">(Click here for a graph)</a> |        |      |      |      |      |      |      |      |      |      |      |       |                             |                                 |        |
|                                                                | Jan    | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec   | Growing Season <sup>a</sup> | Non Growing Season <sup>b</sup> | Annual |
| Mean <sup>j</sup>                                              | mm/day |      |      |      |      |      |      |      |      |      |      |       | mm                          |                                 |        |
| Monthly <sup>c</sup>                                           | -0.19  | 0.43 | 1.27 | 2.29 | 2.65 | 3.99 | 4.58 | 4.11 | 2.96 | 1.87 | 0.42 | -0.21 | 738                         | 0                               | 738    |
| 15-Day Moving Average <sup>d</sup>                             | -0.30  | 0.34 | 1.28 | 2.37 | 2.66 | 4.01 | 4.58 | 4.09 | 2.89 | 1.95 | 0.42 | -0.14 |                             |                                 |        |
| 7-Day Moving Average <sup>e</sup>                              | -0.25  | 0.38 | 1.28 | 2.31 | 2.65 | 3.97 | 4.57 | 4.09 | 2.93 | 1.92 | 0.43 | -0.19 |                             |                                 |        |
| 3-Day Moving Average <sup>f</sup>                              | -0.20  | 0.42 | 1.27 | 2.31 | 2.65 | 3.96 | 4.58 | 4.11 | 2.95 | 1.87 | 0.44 | -0.22 |                             |                                 |        |
|                                                                |        |      |      |      |      |      |      |      |      |      |      |       |                             |                                 |        |

45-14514

| Standard Deviation <sup>k</sup>    | mm/day |       |       |       |       |       |      |       |       |       |       |       | mm  |   |     |
|------------------------------------|--------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-----|---|-----|
| Monthly <sup>c</sup>               | 0.87   | 0.77  | 1.18  | 0.79  | 1.86  | 1.01  | 0.69 | 0.93  | 0.83  | 0.95  | 0.61  | 1.10  | 101 | 0 | 101 |
| 15-Day Moving Average <sup>d</sup> | 1.00   | 1.07  | 1.01  | 0.99  | 1.88  | 1.15  | 0.63 | 0.77  | 1.00  | 0.89  | 0.82  | 0.83  |     |   |     |
| 7-Day Moving Average <sup>e</sup>  | 1.27   | 1.32  | 1.23  | 1.43  | 2.39  | 1.57  | 0.78 | 1.01  | 1.32  | 1.25  | 1.11  | 1.12  |     |   |     |
| 3-Day Moving Average <sup>f</sup>  | 1.54   | 1.63  | 1.72  | 1.94  | 3.05  | 2.02  | 1.03 | 1.38  | 1.84  | 1.73  | 1.49  | 1.61  |     |   |     |
| 20% Exceedance <sup>l</sup>        | mm/day |       |       |       |       |       |      |       |       |       |       |       | mm  |   |     |
| Monthly <sup>c</sup>               | 0.23   | 0.92  | 1.85  | 2.95  | 3.51  | 4.69  | 4.97 | 4.55  | 3.55  | 2.20  | 0.98  | 0.27  | 837 | 0 | 837 |
| 15-Day Moving Average <sup>d</sup> | 0.69   | 1.29  | 2.66  | 3.69  | 5.05  | 5.45  | 5.23 | 4.96  | 3.95  | 3.09  | 1.50  | 0.72  |     |   |     |
| 7-Day Moving Average <sup>e</sup>  | 0.87   | 1.80  | 3.16  | 4.62  | 5.63  | 5.80  | 5.60 | 5.22  | 4.45  | 3.67  | 2.00  | 0.97  |     |   |     |
| 3-Day Moving Average <sup>f</sup>  | 1.20   | 2.23  | 3.80  | 5.51  | 6.15  | 6.46  | 5.97 | 5.66  | 4.86  | 3.94  | 2.50  | 1.15  |     |   |     |
| 80% Exceedance <sup>m</sup>        | mm/day |       |       |       |       |       |      |       |       |       |       |       | mm  |   |     |
| Monthly <sup>c</sup>               | -0.77  | -0.08 | 0.63  | 1.76  | 1.49  | 3.34  | 4.18 | 3.83  | 2.06  | 1.49  | 0.02  | -0.80 | 636 | 0 | 634 |
| 15-Day Moving Average <sup>d</sup> | -1.41  | -0.46 | -0.24 | 0.71  | -0.12 | 2.06  | 3.71 | 3.04  | 1.45  | 0.43  | -0.72 | -1.12 |     |   |     |
| 7-Day Moving Average <sup>e</sup>  | -3.30  | -0.85 | -1.01 | -0.62 | -2.18 | 0.34  | 2.68 | 1.98  | 0.42  | -0.79 | -2.00 | -2.98 |     |   |     |
| 3-Day Moving Average <sup>f</sup>  | -5.33  | -2.86 | -4.09 | -3.51 | -7.63 | -3.12 | 1.47 | -1.50 | -1.45 | -3.65 | -4.68 | -6.66 |     |   |     |
| Ave Highest P <sub>def</sub>       | mm/day |       |       |       |       |       |      |       |       |       |       |       | --  |   |     |
| 15-Day Moving Average <sup>g</sup> | 0.43   | 0.85  | 1.97  | 3.18  | 3.89  | 4.83  | 4.95 | 4.57  | 3.51  | 2.64  | 1.10  | 0.45  |     |   |     |
| 7-Day Moving Average <sup>h</sup>  | 0.78   | 1.36  | 2.60  | 4.07  | 4.93  | 5.48  | 5.30 | 4.95  | 4.13  | 3.17  | 1.56  | 0.75  |     |   |     |
| 3-Day Moving Average <sup>i</sup>  | 1.01   | 1.73  | 3.27  | 4.94  | 5.61  | 6.09  | 5.78 | 5.43  | 4.59  | 3.63  | 2.06  | 0.99  |     |   |     |
| Ave Lowest P <sub>def</sub>        | mm/day |       |       |       |       |       |      |       |       |       |       |       | --  |   |     |
| 15-Day Moving Average <sup>g</sup> | -0.79  | -0.02 | 0.56  | 1.60  | 1.26  | 3.18  | 4.19 | 3.65  | 2.31  | 1.13  | -0.22 | -0.71 |     |   |     |
|                                    | -1.75  | -0.71 | -0.35 | 0.36  | -0.74 | 1.92  | 3.61 | 3.02  | 1.35  | 0.25  | -1.09 | -1.53 |     |   |     |

|                                                                                           |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |
|-------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| 7-Day Moving Average <sup>h</sup>                                                         |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |
| 3-Day Moving Average <sup>i</sup>                                                         | -3.31 | -2.14 | -2.31 | -1.79 | -4.29 | 0.12  | 2.54  | 1.64  | -0.69 | -1.65 | -2.75 | -3.37 |       |      |       |
| <b>Special normal distribution parameters for monthly, seasonal, and annual intervals</b> |       |       |       |       |       |       |       |       |       |       |       |       |       |      |       |
| Skew <sup>m</sup>                                                                         | -0.30 | -1.95 | -0.16 | -0.07 | -0.36 | -1.07 | -0.40 | -0.95 | -1.77 | -0.26 | -0.56 | -0.56 | -0.26 | 0.00 | -0.26 |
| Kurtosis <sup>o</sup>                                                                     | 0.80  | 8.22  | 0.82  | 3.10  | 0.94  | 3.66  | 0.99  | 2.85  | 6.31  | 1.21  | 4.12  | 1.70  | 2.42  | 0.00 | 2.41  |

<sup>a</sup> Growing Season: This is usually the time from green up or planting in the spring to a killing frost or harvest in the fall. It is not applicable for entries without a growing season and will be blank.

<sup>b</sup> Nongrowing Season: This is usually the time from a killing frost or harvest in the fall to the of green up in the spring. It is not applicable for entries without a growing season.

<sup>c</sup> Mean of the average daily value for month

<sup>d</sup> Mean of the fourteen 15-day period averages contained in the month

<sup>e</sup> Mean of the twenty three 7-day period averages contained in the month

<sup>f</sup> Mean of the twenty seven 3-day period averages contained in the month

<sup>g</sup> Mean of the highest/lowest 15-day period average in month

<sup>h</sup> Mean of the highest/lowest 7-day period average in month

<sup>i</sup> Mean of the highest/lowest 3-day period average in month

<sup>j</sup> This value represents the *mean value* for the parameter for the month over the 'normal' period of record. Generally, the 'normal' period is the last thirty years with data.

<sup>k</sup> This value represents the *standard deviation* for the parameter for the month over the 'normal' period.

<sup>l</sup> This value represents the *value* for the parameter that has a 20% chance of being exceeded that month during any particular year. Conversely, there is an 80% chance that the parameter value will be less than the *value* shown.

<sup>m</sup> This value represents the *value* for the parameter that has a 80% chance of being exceeded that month during any particular year. Conversely, there is an 20% chance that the parameter value will be less than the *value* shown.

<sup>n</sup> This value represents the *skewness (asymmetry) of the distribution of the parameter values* for the month (year) over the 'normal' period. A value near zero indicates that the distribution approximates a normal (Gaussian) and

symmetrical distribution. A negative skew indicates that the parameter distribution has relatively few low values compared to high values. A positive skew indicates that the distribution has relatively few high values compared to the number of low values. A skew value near 1 indicates that the underlying distribution approximates a lognormal distribution.

<sup>o</sup>This value represents the *kurtosis* of the parameter value distribution for the month (year) over the 'normal' period. Kurtosis is a measurement of the height to width ratio of the probability distribution, or the *peakedness (slenderness)*. A normal (Gaussian) distribution has a kurtosis of 3. A high kurtosis distribution has a sharper peak and longer tails, while a low kurtosis distribution has a more rounded peak and shorter tails.

---

*This work and report were prepared by the University of Idaho Research and Extension Center at Kimberly, Idaho under contract with the Idaho Department of Water Resources. Work was supported by funding from IDWR and the Idaho Agricultural Experiment Station and Idaho Engineering Experiment Station. The authors gratefully acknowledge the long-term evapotranspiration data collection and long-standing advice provided by Dr. James L. Wright, USDA-ARS Kimberly (ret.), the more than two decades of high quality agricultural weather data collection by the U.S. Bureau of Reclamation AgriMet system, and the very long-standing, routine data collection by the hundreds of cooperative weather station volunteers across the state who, for more than one-hundred years, have faithfully observed daily air temperature and precipitation.*

*The citation for the evapotranspiration data used from this site should be: Allen, Richard G. and Clarence W. Robison, 2017. **Evapotranspiration and Consumptive Irrigation Water Requirements for Idaho: Supplement updating the Time Series through December 2017**, Research Technical Completion Report, Kimberly Research and Extension Center, University of Idaho, Moscow, ID.*

*Questions regarding the data should be addressed to [Richard G. Allen](#), or [Clarence W. Robison](#) University of Idaho, Kimberly Research and Extension Center, 3793 North 3600 East, Kimberly, ID 83341. Telephone (208)-423-6610*

*Copyright 2018, University of Idaho.*

*ETIdaho web site powered by [Debian](#), [Apache](#), [Firebird DBMS](#), [Python](#)*



# University of Idaho

Kimberly Research  
and Extension Center

[Water Resources Program](#)

*ETIdaho 2017*

## Evapotranspiration and Consumptive Irrigation Water Requirements for Idaho

Please send suggestions for  
improving this site to robison at  
uidaho dot edu

2019-02-27 12:50

*Copyright 2018, University of  
Idaho.*

### Burley FAA AP (NWS -- USW00024133)

Statistics based on thirty year normal spans 1985 to 2016 years

For a different land cover or crop click on the above link.

You can highlight this table and copy via the clipboard to a Microsoft Excel or OpenOffice spreadsheet to plot or otherwise work with this data.

| Wetlands - narrow stands<br>Precipitation Deficit <a href="#">(Click here for a graph)</a> |        |      |      |      |      |      |       |       |      |      |       |       |                             |                                 |        |
|--------------------------------------------------------------------------------------------|--------|------|------|------|------|------|-------|-------|------|------|-------|-------|-----------------------------|---------------------------------|--------|
|                                                                                            | Jan    | Feb  | Mar  | Apr  | May  | Jun  | Jul   | Aug   | Sep  | Oct  | Nov   | Dec   | Growing Season <sup>a</sup> | Non Growing Season <sup>b</sup> | Annual |
| Mean <sup>j</sup>                                                                          | mm/day |      |      |      |      |      |       |       |      |      |       |       | mm                          |                                 |        |
| Monthly <sup>c</sup>                                                                       | -0.39  | 0.05 | 0.12 | 0.16 | 1.34 | 7.61 | 11.64 | 10.84 | 7.96 | 2.87 | -0.25 | -0.47 | 1297                        | -26                             | 1271   |
| 15-Day Moving Average <sup>d</sup>                                                         | -0.49  | 0.01 | 0.11 | 0.13 | 1.22 | 7.54 | 11.71 | 10.83 | 7.91 | 2.86 | -0.27 | -0.40 |                             |                                 |        |
| 7-Day Moving Average <sup>e</sup>                                                          | -0.44  | 0.02 | 0.13 | 0.15 | 1.27 | 7.54 | 11.66 | 10.84 | 7.93 | 2.89 | -0.25 | -0.45 |                             |                                 |        |
| 3-Day Moving Average <sup>f</sup>                                                          | -0.39  | 0.04 | 0.12 | 0.16 | 1.33 | 7.58 | 11.64 | 10.85 | 7.94 | 2.86 | -0.23 | -0.48 |                             |                                 |        |
|                                                                                            | mm/day |      |      |      |      |      |       |       |      |      |       |       | mm                          |                                 |        |

45-14516

| Standard Deviation <sup>k</sup>    |        |       |       |       |       |       |       |       |       |       |       |       |      |     |      |
|------------------------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-----|------|
| Monthly <sup>c</sup>               | 0.79   | 0.34  | 0.50  | 0.28  | 2.50  | 2.89  | 1.67  | 1.36  | 1.52  | 3.27  | 0.32  | 0.84  | 175  | 44  | 187  |
| 15-Day Moving Average <sup>d</sup> | 0.93   | 0.42  | 0.50  | 0.42  | 2.00  | 3.22  | 1.35  | 1.19  | 1.95  | 2.80  | 0.51  | 0.67  |      |     |      |
| 7-Day Moving Average <sup>e</sup>  | 1.18   | 0.64  | 0.71  | 0.67  | 2.40  | 3.74  | 1.60  | 1.58  | 2.52  | 3.24  | 0.78  | 0.97  |      |     |      |
| 3-Day Moving Average <sup>f</sup>  | 1.45   | 0.94  | 1.23  | 1.09  | 2.99  | 4.20  | 2.02  | 2.08  | 3.11  | 3.62  | 1.18  | 1.45  |      |     |      |
| 20% Exceedance <sup>l</sup>        | mm/day |       |       |       |       |       |       |       |       |       |       |       | mm   |     |      |
| Monthly <sup>c</sup>               | 0.04   | 0.23  | 0.33  | 0.38  | 2.36  | 10.37 | 12.69 | 11.61 | 9.21  | 4.65  | 0.03  | -0.13 | 1454 | 5   | 1444 |
| 15-Day Moving Average <sup>d</sup> | 0.36   | 0.43  | 0.71  | 0.66  | 3.81  | 12.53 | 13.34 | 12.40 | 9.88  | 7.28  | 0.40  | 0.33  |      |     |      |
| 7-Day Moving Average <sup>e</sup>  | 0.64   | 0.90  | 1.27  | 1.05  | 5.48  | 13.56 | 14.10 | 13.18 | 11.22 | 8.67  | 0.65  | 0.53  |      |     |      |
| 3-Day Moving Average <sup>f</sup>  | 0.89   | 1.23  | 1.88  | 1.72  | 6.67  | 15.86 | 14.94 | 14.33 | 12.26 | 9.86  | 1.35  | 0.81  |      |     |      |
| 80% Exceedance <sup>m</sup>        | mm/day |       |       |       |       |       |       |       |       |       |       |       | mm   |     |      |
| Monthly <sup>c</sup>               | -1.10  | -0.15 | -0.14 | -0.11 | -0.03 | 5.05  | 10.93 | 10.01 | 6.43  | 0.47  | -0.50 | -0.76 | 1124 | -68 | 1062 |
| 15-Day Moving Average <sup>d</sup> | -1.58  | -0.44 | -0.63 | -0.57 | -1.13 | 2.85  | 9.86  | 9.18  | 4.59  | -0.25 | -1.12 | -1.24 |      |     |      |
| 7-Day Moving Average <sup>e</sup>  | -3.43  | -1.22 | -1.40 | -1.42 | -3.08 | 1.15  | 8.43  | 7.71  | 2.74  | -1.25 | -2.37 | -2.95 |      |     |      |
| 3-Day Moving Average <sup>f</sup>  | -5.28  | -2.60 | -4.07 | -3.61 | -8.33 | -1.40 | 6.39  | 5.75  | 0.41  | -3.40 | -5.25 | -6.44 |      |     |      |
| Ave Highest P <sub>def</sub>       | mm/day |       |       |       |       |       |       |       |       |       |       |       | --   |     |      |
| 15-Day Moving Average <sup>g</sup> | 0.23   | 0.30  | 0.53  | 0.53  | 2.60  | 9.82  | 12.49 | 11.74 | 9.30  | 4.55  | 0.24  | 0.16  |      |     |      |
| 7-Day Moving Average <sup>h</sup>  | 0.51   | 0.65  | 0.95  | 0.86  | 3.60  | 11.32 | 13.30 | 12.57 | 10.61 | 6.10  | 0.56  | 0.40  |      |     |      |
| 3-Day Moving Average <sup>i</sup>  | 0.71   | 0.98  | 1.43  | 1.42  | 4.95  | 12.86 | 14.39 | 13.69 | 11.71 | 7.38  | 0.94  | 0.61  |      |     |      |
| Ave Lowest P <sub>def</sub>        | mm/day |       |       |       |       |       |       |       |       |       |       |       | --   |     |      |
| 15-Day Moving Average <sup>g</sup> | -0.93  | -0.26 | -0.28 | -0.25 | 0.07  | 5.42  | 10.78 | 9.96  | 6.55  | 1.29  | -0.69 | -0.92 |      |     |      |
| 7-Day Moving Average <sup>h</sup>  | -1.82  | -0.72 | -0.94 | -0.92 | -1.22 | 3.94  | 9.81  | 8.90  | 5.09  | 0.03  | -1.43 | -1.71 |      |     |      |

|                                                                                           |       |       |       |       |       |       |       |       |       |       |       |       |      |       |      |
|-------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|
| 3-Day Moving Average <sup>i</sup>                                                         | -3.33 | -1.69 | -2.59 | -2.44 | -4.24 | 2.21  | 8.24  | 7.09  | 2.91  | -1.69 | -2.87 | -3.46 |      |       |      |
| <b>Special normal distribution parameters for monthly, seasonal, and annual intervals</b> |       |       |       |       |       |       |       |       |       |       |       |       |      |       |      |
| Skew <sup>m</sup>                                                                         | -0.39 | -1.15 | -0.45 | -1.03 | 0.31  | -0.07 | -0.38 | -0.71 | -1.18 | 0.10  | -0.52 | -0.90 | 0.23 | -1.09 | 0.30 |
| Kurtosis <sup>o</sup>                                                                     | 0.76  | 4.07  | 1.12  | 4.11  | 0.81  | 2.23  | 0.97  | 2.09  | 3.90  | 0.53  | 2.99  | 2.83  | 2.46 | 4.01  | 2.40 |

<sup>a</sup> Growing Season: This is usually the time from green up or planting in the spring to a killing frost or harvest in the fall. It is not applicable for entries without a growing season and will be blank.

<sup>b</sup> Nongrowing Season: This is usually the time from a killing frost or harvest in the fall to the of green up in the spring. It is not applicable for entries without a growing season.

<sup>c</sup> Mean of the average daily value for month

<sup>d</sup> Mean of the fourteen 15-day period averages contained in the month

<sup>e</sup> Mean of the twenty three 7-day period averages contained in the month

<sup>f</sup> Mean of the twenty seven 3-day period averages contained in the month

<sup>g</sup> Mean of the highest/lowest 15-day period average in month

<sup>h</sup> Mean of the highest/lowest 7-day period average in month

<sup>i</sup> Mean of the highest/lowest 3-day period average in month

<sup>j</sup> This value represents the *mean value* for the parameter for the month over the 'normal' period of record. Generally, the 'normal' period is the last thirty years with data.

<sup>k</sup> This value represents the *standard deviation* for the parameter for the month over the 'normal' period.

<sup>l</sup> This value represents the *value* for the parameter that has a 20% chance of being exceeded that month during any particular year. Conversely, there is an 80% chance that the parameter value will be less than the *value* shown.

<sup>m</sup> This value represents the *value* for the parameter that has a 80% chance of being exceeded that month during any particular year. Conversely, there is an 20% chance that the parameter value will be less than the *value* shown.

<sup>n</sup> This value represents the *skewness (asymmetry) of the distribution of the parameter values* for the month (year) over the 'normal' period. A value near zero indicates that the distribution approximates a normal (Gaussian) and symmetrical distribution. A negative skew indicates that the parameter distribution has relatively few low values compared to high values. A positive skew indicates that the distribution has relatively few high values compared to

the number of low values. A skew value near 1 indicates that the underlying distribution approximates a lognormal distribution.

<sup>o</sup>This value represents the *kurtosis* of the parameter value distribution for the month (year) over the 'normal' period. Kurtosis is a measurement of the height to width ratio of the probability distribution, or the *peakedness (slenderness)*. A normal (Gaussian) distribution has a kurtosis of 3. A high kurtosis distribution has a sharper peak and longer tails, while a low kurtosis distribution has a more rounded peak and shorter tails.

---

*This work and report were prepared by the University of Idaho Research and Extension Center at Kimberly, Idaho under contract with the Idaho Department of Water Resources. Work was supported by funding from IDWR and the Idaho Agricultural Experiment Station and Idaho Engineering Experiment Station. The authors gratefully acknowledge the long-term evapotranspiration data collection and long-standing advice provided by Dr. James L. Wright, USDA-ARS Kimberly (ret.), the more than two decades of high quality agricultural weather data collection by the U.S. Bureau of Reclamation AgriMet system, and the very long-standing, routine data collection by the hundreds of cooperative weather station volunteers across the state who, for more than one-hundred years, have faithfully observed daily air temperature and precipitation.*

*The citation for the evapotranspiration data used from this site should be: Allen, Richard G. and Clarence W. Robison, 2017. **Evapotranspiration and Consumptive Irrigation Water Requirements for Idaho: Supplement updating the Time Series through December 2017**, Research Technical Completion Report, Kimberly Research and Extension Center, University of Idaho, Moscow, ID.*

*Questions regarding the data should be addressed to [Richard G. Allen](#), or [Clarence W. Robison](#) University of Idaho, Kimberly Research and Extension Center, 3793 North 3600 East, Kimberly, ID 83341. Telephone (208)-423-6610*

*Copyright 2018, University of Idaho.*

*ETIdaho web site powered by [Debian](#), [Apache](#), [Firebird DBMS](#), [Python](#)*



State of Idaho

DEPARTMENT OF WATER RESOURCES

SOUTHERN REGION • 650 ADDISON AVE W STE 500 • TWIN FALLS ID 83301-5858  
Phone: (208) 736-3033 • Fax: (208) 736-3037 • Website: [www.idwr.idaho.gov](http://www.idwr.idaho.gov)

BRAD LITTLE  
Governor

GARY SPACKMAN  
Director

March 15, 2019

IDAHO DEPT OF FISH & GAME  
FRANK EDELMANN  
324 S 417 E STE 1  
JEROME ID 83338

RE: Application for Permit No(s). 45-14516 (Alan H & Norma Andersen)

Dear Frank:

The Department of Water Resources is seeking written comment and/or recommendations from your agency regarding the above referenced water right application. A copy of the application is enclosed for your reference. Please review the application, complete the enclosed recommendation form, and submit it to this office within 21 days. In addition, detailed information regarding this application(s) can be found on our website at [research.idwr.idaho.gov](http://research.idwr.idaho.gov).

The Department is currently publishing notice of the application, as part of the initial review process; and your response to this request is appreciated. If your agency desires to formally protest the approval of this application, you may do so after the notice is published by filing a written protest along with a \$25.00 filing fee within 10 days after final publication (*on or before April 8, 2019*).

Please contact this office if you have any questions regarding the application.

Sincerely,

Allison Inouye  
Water Resource Agent

Enclosure(s)



State of Idaho

DEPARTMENT OF WATER RESOURCES

SOUTHERN REGION • 650 ADDISON AVE W STE 500 • TWIN FALLS ID 83301-5858

Phone: (208) 736-3033 • Fax: (208) 736-3037 • Website: [www.idwr.idaho.gov](http://www.idwr.idaho.gov)

BRAD LITTLE  
Governor

GARY SPACKMAN  
Director

March 15, 2019

WATER DISTRICT #140 *via e-mail*  
BRIAN HIGGS  
355 W 500 S  
BURLEY ID 83318

RE: Application For Permit No.(s): 45-14516 (Alan H & Norma Anderson)

Dear Brian:

A copy of the above referenced application is enclosed. Please review the application, complete the enclosed recommendation form as necessary, and return it to this office within 21 days of the date of this letter.

If the application is approved, IDWR will include appropriate standard conditions of approval for a water right located within a water district, such as regulation by the water master, lockable controlling works, and/or measuring devices. Any special conditions or other concerns you have related to this application should be specifically addressed in your recommendation.

IDWR's regional offices can finish reviewing an unprotested application as soon as the protest period has past. Your prompt response to this request will ensure that your recommendation can be considered. If IDWR has not received your written recommendation within 21 days from the date of this letter, IDWR will presume that you do not oppose approval of the application and that you have no comments for IDWR to consider.

Sincerely,

Allison Inouye  
Water Resource Agent

Enclosure(s)



State of Idaho

## DEPARTMENT OF WATER RESOURCES

SOUTHERN REGION • 650 ADDISON AVE W STE 500 • TWIN FALLS ID 83301-5858

Phone: (208) 736-3033 • Fax: (208) 736-3037

Website: [www.idwr.idaho.gov](http://www.idwr.idaho.gov) • Email: [southerninfo@idwr.idaho.gov](mailto:southerninfo@idwr.idaho.gov)

BRAD LITTLE  
Governor

GARY SPACKMAN  
Director

March 15, 2019

ALAN H ANDERSEN  
NORMA ANDERSEN  
488 RIVERSIDE DR  
BURLEY ID 83318-5419

Application For Permit No. 45-14516

Dear Applicant(s):

The Department of Water Resources has received your water right application. Please refer to the number referenced above in all future correspondence regarding this application.

A legal notice of the application has been prepared and is scheduled for publication in the TIMES NEWS on 3/21/2019 and 3/28/2019. Protests to this application may be submitted for a period ending ten (10) days after the second publication. Any protest against this application must be filed with the Department of Water Resources, together with a protest fee of \$25.00 for each application, on or before **April 8, 2019**.

If the application is protested, you will be sent a copy of each protest. All protests must be resolved before the application can be considered for approval. If the protest(s) cannot be resolved voluntarily, the Department will conduct a conference and/or hearing on the matter.

If the application is not protested, the Department will process your application and notify you of any action taken on the application. If your application is approved, the Department will send you a copy of the permit.

Please contact this office if you have any questions regarding the application.

Sincerely,

A handwritten signature in black ink that reads "Allison Inouye". The signature is written in a cursive, flowing style.

Allison Inouye  
Water Resource Agent

## Inouye, Allison

---

**From:** Inouye, Allison  
**Sent:** Thursday, March 14, 2019 5:02 PM  
**To:** 'legals@magicvalley.com'  
**Subject:** LEGAL NOTICE  
**Attachments:** Times News Ad.docx; Times News Cover Letter.docx

Attached please find (1) legal notice being submitted for publication on March 21<sup>st</sup> & 28<sup>th</sup>, 2019. Please let me know if there are any questions or if you are not able to run the ad on the dates requested.

Thank you,  
Allison

Allison Inouye  
Water Resource Agent  
Southern Regional Office | Idaho Dept. of Water Resources  
p (208) 736-3033 | f (208) 736-3037  
Allison.Inouye@idwr.idaho.gov



State of Idaho

## DEPARTMENT OF WATER RESOURCES

SOUTHERN REGION • 650 ADDISON AVE W STE 500 • TWIN FALLS ID 83301-5858

Phone: (208) 736-3033 • Fax: (208) 736-3037

Website: [www.idwr.idaho.gov](http://www.idwr.idaho.gov) • Email: [southerninfo@idwr.idaho.gov](mailto:southerninfo@idwr.idaho.gov)

BRAD LITTLE  
Governor

GARY SPACKMAN  
Director

March 13, 2019

### LEGAL NOTICE DEPARTMENT

TIMES NEWS

PO BOX 548

TWIN FALLS, ID 83303-0548

RE: Application For Permit No.(s): 45-14516

Dear Legal Notice Department:

Please publish the enclosed legal notice on the dates indicated (once a week for two consecutive weekly issues). If you cannot publish the notice on the proposed dates, please contact us immediately.

An affidavit of publication must be submitted to the Department along with the publication bill. Please send the affidavit and bill to this office before 4/8/2019. Your cooperation is appreciated.

Sincerely,

Allison Inouye  
Water Resource Agent

Enclosure(s)

The following application(s) have been filed to appropriate the public waters of the State of Idaho:

**45-14516**

ALAN H ANDERSEN

NORMA ANDERSEN

488 RIVERSIDE DR

BURLEY, ID 83318-5419

Point of Diversion L1(NENW) S31 T10S R24E CASSIA County Source DUCK CREEK Tributary SNAKE RIVER

Point of Diversion L1(NENW) S31 T10S R24E CASSIA County Source DUCK CREEK Tributary SNAKE RIVER

Point of Diversion L1(NENW) S31 T10S R24E CASSIA County Source DUCK CREEK Tributary SNAKE RIVER

Use: AESTHETIC 01/01 to 12/31 0.12 CFS

Use: AESTHETIC STORAGE 01/01 to 12/31 0.1 AF

Use: IRRIGATION 03/15 to 11/15 0.04 CFS

Total Diversion: 0.16 CFS

Date Filed: 2/27/2019

Place Of Use: AESTHETIC, AESTHETIC STORAGE, IRRIGATION

T10S R24E S31 L1(NENW)

Total Acres: 0.1

Application proposes diverting up to 0.12 cfs from Duck Creek for non-consumptive aesthetic use and 0.1 acre feet for non-consumptive aesthetic storage use. Application also proposes diverting up to 0.04 cfs from Duck Creek for the irrigation of 0.1 acre in lieu of utilizing ground water currently authorized to irrigate the same 0.1 acre. Proposed points of diversion are an excavated pool, a pump in Duck Creek to divert water to an aesthetic water feature, and a 2nd pump to divert water for irrigation. Points of diversion and place of use are located on Lot 9, Block 1 of Springdale Acres Subdivision approximately 4.8 miles east of Burley on the south side of the Snake River.

Permits will be subject to all prior water rights. For additional information concerning the property location, contact Southern Region office at (208) 736-3033; or for a full description of the right(s), please see [research.idwr.idaho.gov](http://research.idwr.idaho.gov). Protests may be submitted based on the criteria of Idaho Code § 42-203A. Any protest against the approval of this application must be filed with the Director, Dept. of Water Resources, Southern Region, 650 ADDISON AVE W, STE 500, TWIN FALLS, ID 83301-5858 together with a protest fee of \$25.00 for each application on or before **April 8, 2019**. The protestant must also send a copy of the protest to the applicant.

GARY SPACKMAN, Director

Published on March 21<sup>st</sup> & 28<sup>th</sup>, 2019