

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 22-13404

Exam Date: 5/7/2015

1. Current Owner: EE DAH HOW WATER USERS ASSN
C/O AIMEE GORMLEY
750 INDIAN SUNSET DR
DRIGGS ID 83422
(208)354-8394
2. Accompanied by: Aimee Gormley/ Allen Wilder
Phone No: (208) 354-8394 / (208) 456-2287
Address: 750 Indian Sunset Dr / N/A
Relationship to Permit Holder: President of HOA / water system operator.

3. SOURCE TRIBUTARY
GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 22-7536
2. Other water rights with the same point of diversion: 22-7536

C. DIVERSION AND DELIVERY SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER NE1/4NW1/4 Sec. 23, Twp 05N, Rge 45E, B.M.
TETON County

Method of Determination: GPS and aerial photography

2.

PLACE OF USE: DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
05N	45E	23					X	X											

Method of Determination: Aerial photography

3. ☐ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
☒ Aerial Photo Attached (required for irrigation of 10+ acres).
☒ Photo of Diversion and System Attached

4.

Well or DiversionID No.*Motor MakeHpMotor Serial No.Pump MakePump Serial No. or Discharge Size

A0018211

7.5

D. FLOW MEASUREMENTS

1.

**Measurement
Equipment**

5 gallon bucket and stopwatch

2. Measurements:

Measurement was taken by diverting water through a discharge pipe into a five gallon bucket

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method:

5 gallons in 1.5 seconds = 60 seconds ÷ 1.5 seconds × 5 gallons + 5% measurement error = 210.0 gallons per minute

Q= 0.47 cfs. Rights 22-7536 and 22-13404 when combined is limited to 0.47 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: N/A

 $V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \text{N/A}$ $V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = \text{N/A}$ $V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \text{N/A}$

2. Volume Calculations for Other Uses:

Domestic: In-house use for 24 homes = 24 homes X 0.6 acre-feet/home = 14.4 acre-feet

 $\frac{1}{2}$ acre irrigation per lot = 24 lots X 0.5 acres/lot X 1.9 acre-feet per acre (CIR, ET Idaho) = 22.8 acre-feet.

Total volume = 37.2 acre-feet.

G. NARRATIVE/REMARKS/COMMENTS

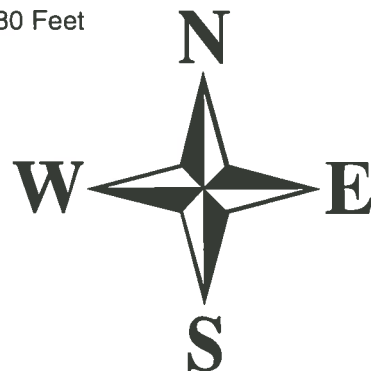
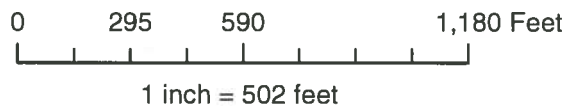
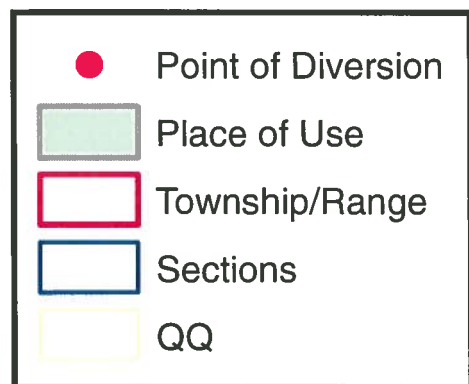
Water delivery system consists of one submersible pump piped to the EE-DAH-HOW Acres Subdivision. There are 25 lots hooked into the water delivery system which two of the lots are vacant. The proposed place of use will include the 25 lots. The volume calculation for the domestic use is based on the 24 homes permitted. Water right 22-7536 is for 4 homes in the EE-DAH-HOW Acres Subdivision. The domestic use under rights 22-7536 and 22-13404 is limited to 25 homes.

Have conditions of permit approval been met? ☒ Yes ☐ No**H. RECOMMENDATIONS****1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
DOMESTIC	01/01 to 12/31	0.470 CFS	37.20 AF
<u>Totals:</u>		0.470 CFS	37.20 AF

2. Recommended Amendments☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other**I. AUTHENTICATION**Field Examiner's Name Blake Jordan Date 5/12/2015Reviewer James Cefalo Date 5/20/15

22-13404







ET_{Idaho} 2012 -- Evapotranspiration and Consumptive Irrigation Water Requirements for Idaho

Please send suggestions for improving this site to robison at kimberly dot uidaho dot edu Copyright 2012, University of Idaho.

Driggs (NWS -- 102676)

Statistics based on thirty year normal spans 1969 to 2008 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.

Grass - Turf (lawns) - Irrigated														
Precipitation Deficit (Click here for a graph)														
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Growing Season ^a	Non Growing Season ^b
Mean ^j	mm/day												mm	
Monthly ^c	0.01	0.01	0.06	0.19	1.74	4.78	5.16	4.78	2.43	-0.10	-0.39	-0.12	582	-14
15-Day Moving Average ^d	0.00	-0.03	0.06	0.16	1.69	4.79	5.13	4.70	2.22	-0.07	-0.35	-0.11	1.9 Acre-feet	
7-Day Moving Average ^e	0.01	-0.01	0.05	0.16	1.71	4.74	5.12	4.76	2.31	-0.08	-0.39	-0.11		
3-Day Moving Average ^f	0.01	0.01	0.05	0.18	1.72	4.76	5.15	4.79	2.39	-0.10	-0.39	-0.12		
Standard Deviation ^k	mm/day												mm	
Monthly ^c	0.07	0.08	0.16	0.43	1.83	1.18	1.24	0.96	1.07	0.84	0.38	0.33	103	16
15-Day Moving Average ^d	0.08	0.21	0.19	0.51	1.63	1.68	1.11	1.05	1.54	0.67	0.54	0.27		
7-Day Moving Average ^e	0.13	0.37	0.34	0.69	2.02	2.23	1.60	1.42	2.05	1.18	0.81	0.41		
3-Day Moving Average ^f	0.22	0.53	0.57	1.02	2.74	2.88	2.41	1.98	2.74	1.97	1.16	0.62		
20% Exceedance ^l	mm/day												mm	
Monthly ^c	0.04	0.05	0.18	0.31	2.78	5.65	5.86	5.46	3.21	0.09	-0.08	0.00	664	-3
15-Day Moving Average ^d	0.12	0.20	0.40	0.58	4.45	6.65	6.61	5.97	4.52	0.67	0.15	0.11		
7-Day Moving Average ^e	0.25	0.42	0.66	0.94	5.36	7.35	7.05	6.58	5.78	1.45	0.45	0.29		

3-Day Moving Average ^f	0.35	0.55	0.90	1.82	6.94	8.86	8.24	7.81	6.87	3.65	0.72	0.42			
80% Exceedance^m	mm/day												mm		
Monthly ^c	-0.02	-0.03	-0.02	-0.06	0.66	3.88	4.51	3.90	1.35	-0.57	-0.77	-0.29	486	-33	466
15-Day Moving Average ^d	-0.15	-0.25	-0.29	-0.49	-0.58	2.20	3.19	2.89	-0.17	-1.16	-1.37	-0.60			
7-Day Moving Average ^e	-0.35	-0.57	-0.70	-1.19	-2.10	-0.92	1.27	1.58	-1.44	-2.77	-2.84	-1.07			
3-Day Moving Average ^f	-0.74	-1.29	-1.66	-2.72	-6.22	-4.56	-3.52	-1.27	-5.18	-7.11	-5.18	-2.35			
Ave Highest P_{def}	mm/day												--		
15-Day Moving Average ^g	0.09	0.16	0.28	0.55	2.83	6.03	6.11	5.49	3.65	0.60	0.10	0.07			
7-Day Moving Average ^h	0.20	0.36	0.50	0.91	4.08	6.88	6.70	6.26	5.06	1.30	0.32	0.20			
3-Day Moving Average ⁱ	0.30	0.53	0.75	1.58	5.69	8.11	7.83	7.33	6.23	2.15	0.55	0.32			
Ave Lowest P_{def}	mm/day												--		
15-Day Moving Average ^g	-0.08	-0.16	-0.15	-0.18	0.52	3.50	4.29	3.90	1.11	-0.75	-0.80	-0.29			
7-Day Moving Average ^h	-0.20	-0.44	-0.48	-0.72	-0.89	1.42	2.91	2.67	-0.07	-1.60	-1.52	-0.63			
3-Day Moving Average ⁱ	-0.46	-0.97	-1.21	-1.81	-3.73	-1.09	-0.27	0.56	-2.74	-4.13	-3.10	-1.29			
Special normal distribution parameters for monthly, seasonal, and annual intervals															
Skew ^m	0.17	-1.43	0.36	3.16	0.19	-0.36	-0.09	0.00	0.10	0.62	-0.97	-0.78	0.29	-0.03	0.33
Kurtosis ^o	0.91	7.22	0.75	14.25	0.63	3.30	0.71	0.53	2.74	2.15	3.10	1.76	2.40	2.53	2.27

^a 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.

^b 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.

^c Mean of the average daily value for month

^d Mean of the fourteen 15-day period averages contained in the month

^e Mean of the twenty three 7-day period averages contained in the month

^f Mean of the twenty seven 3-day period averages contained in the month

^g Mean of the highest/lowest 15-day period average in month