

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
16S	44E	1															X		
																	L 2		
16S	44E	12																	

Method of Determination: Previous field exam and engineering report. DEQ 04-06-07 Attached

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.

<u>Well or Diversion ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge Size</u>
	Hitachi	20		Grundfos	

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

<u>Measurement Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>

2. Measurements: See DEQ Engineering Report 04-06-07 (attached) page 5 3.0.2
Exam performed by Lance Anderson P.E. (Idaho-Utah) 162 gpm

E. FLOW CALCULATIONS

Measured Method: See Above

☐ Additional Computation Sheets Attached

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 =$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} =$$

2. Volume Calculations for Other Uses:

G. NARRATIVE/REMARKS/COMMENTS

Currently the well serves 70 lots in the East Shore Subdivision (an additional of 11 lots) and 20 lots in Bear Lake Sands II.

The pump discharges to a tank located in the SENENE Section 12, T16S R44E. From the tank the distribution lines run to East Shore Subdivision, Bear Lake Sands II, and the Villas (2 units built in 2000 & 2005).

The 162 gpm flow rated determined by the engineer is 0.3609 cfs. The field exam by Harold Jones, July 1988, determined the well would produce 0.69 cfs. Currently the well is only producing 0.36 cfs. WR 11-7359 is licensed for 0.50 cfs so the well is producing 0.15 (67 gpm) less than the license. This is probably because with the addition of the storage tank the head on the well was raised 200 plus feet (USGS quad).

I recommend no additional water but the addition of the 11 homes in the East Shore Subdivision that are shown as "stubbed in" on the 1993 plat (attached). 70 homes in East Shore and 20 in Bear Lake Sands II. The Villas were built in 2000 and 2005 - they need to apply for new WRs.

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	0.000 CFS	
<u>Totals:</u>		0.000 CFS	

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 Dennis M. Dunn Date 17 Sept 2008

Reviewer _____ Date _____