

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Current owner: State of Idaho, Dept. of Parks & Recreation
Accompanied by: Annalee Darrington
Phone No: (208) 390-8111
Address:
Email: annalee.darrington@idpr.idaho.gov
Relationship to permit holder: Henry's Lake State Park, Park Manager

PERMIT NO
21-13166
EXAM DATE
June 24, 2021
SOURCE
Ground Water
PURPOSE OF USE
Domestic

B. OVERLAP REVIEW

Other water rights with the same place of use:

Yes Overlap

Water Right No.	Source	Purpose of Use	Basis
21-7000	GROUNDWATER	DOMESTIC	DECREEED

Comments:

Other water rights with the same point of diversion:

Yes Overlap

Water Right No.	Source	Purpose of Use	Basis
21-7000	GROUNDWATER	DOMESTIC	DECREEED

Comments:

C. DIVERSION AND DELIVERY SYSTEM

LOCATION OF POINT(S) OF DIVERSION:

NENW SEC. 22 TWP 15N RGE 43E

Metal Tag No.

New Metal Tag?

Method of Determination: Site visit and GPS

Place of Use

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
15N	43E	15												X			X		
15N	43E	22		X															

Method of Determination:

- X Delivery System Diagram Attached (required). Indicate all major components and distances between components.
- X Map attached showing location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- X Aerial photo attached (required for irrigation of 10+ acres).
- X Photo of diversion and system attached.

Well or Diversion No.*	Motor Make	HP	Motor Serial No.	Pump Make	Pump Serial No. or Discharge size.

D. FLOW MEASUREMENTS

Were flow measurements taken?

Yes

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Installed Flow Meter	Magmeter	McCrometer	UltraMag	UM20180730	2	
Installed Flow Meter	Magmeter	McCrometer	UltraMag	MX13-0243	2	

Measurement Comments: Totalizer volume is in Gallons x 1000

Rate of diversion is in gallons per minute.

E. FLOW CALCULATIONS

___ Additional Computation Sheets Attached

Measured Method: Installed Flow meter

Calculations: Instantaneous diversion recorded by installed flow meter.

Well 1 = 75.13 GPM

Well 2 = 88.44 GPM

$88.44 \text{ GPM} \div 448.83 \text{ GPM} = 0.2 \text{ CFS}$

F. VOLUME CALCULATIONS

Volume calculations for other uses:

Volume by Rate of Diversion: $0.2 \text{ CFS} \times 1.9835 \frac{\text{AF}}{\text{day}} \times 214 \text{ days} = 84.89 \text{ AFA}$

Other Volume Calculation: $42 \text{ RV Sites} \times 100 \frac{\text{Gal}}{\text{RV}} \times 214 \text{ days} = 2.8 \text{ AF}$

Shower Facility ~ Assume 125 people $\times 10 \frac{\text{gal}}{\text{person}} \times 214 \text{ days} = 0.8 \text{ AF}$

Permit limited to 3.0 AF. License will be limited to the full 3.0 AF allotment.

G. NATTATIVE/REMARKS/COMMENTS

A beneficial use field exam was performed by Jared Adamson on 6/24/2021. Annalee Darrington, the park manager, was present. Two measurements were taken, the first being at "Well 1" (original diversion) and the second at "Well 2" (new diversion). Multiple hydrants and faucets were turned on to accommodate maximum diversion at both locations during the measurements. The measurements were completed using the installed flow meters at each diversion. A flow rate of 75.13 GPM at Well 1 was recorded using the installed McCrometer UltraMag flow meter. A flow rate of 88.44 GPM at Well 2 was recorded using the installed McCrometer UltraMag flow meter. Both flow meters are on the department's approved flow meter list and installed to manufacture specifications.

The water systems for both diversions are not interconnected. Well 1 supplies the original lower campground and boat ramp area, the upper staff lodges, the gate station, and the trailer waste dump station. Well 2 supplies the new camp ground location with its 42 RV sites and the new shower/bath house. Each of the RV sites have full hookups for power and water. The shower/bath house can be used by all patrons that visit the park.

The development for this permit occurred under Well No. 2. The systems for Well No. 1 and No. 2 are not interconnected. Therefore, the licensed water right should only include Well No. 2 as the point of diversion and the 42 RV sites along with the shower building as the place of use.

H. RECOMMENDATIONS

Have conditions of permit approval been met? **Yes**
If not, what condition(s) were not met?

Recommended Amounts

Beneficial Use	Period of Use	Rate of Diversion	Annual Volume
Domestic	4/1 to 10/31	.20 CFS	3.0 AF
	Totals:	.20 CFS	3.0 AF

Recommended Amendments

Point of Diversion:

Place of Use:

Other Recommendations:

I. AUTHENTICATION

Field Examiner Jared Adamson

Signature

Reviewer

Date

Date

J. PHOTOS



Well house for Well No. 1.



Inside well house for Well No. 1.



Flow meter for Well No. 1.





Flow rate for Well No. 1.

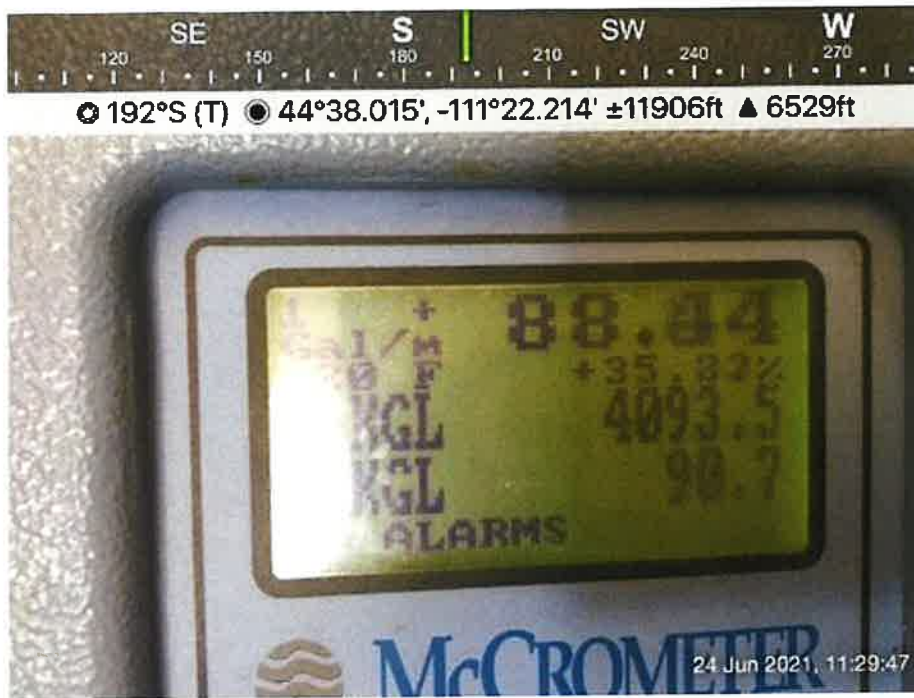


Utility and control room for the Shower Building and is the location for the flow meter for Well No. 2. Located on the east end of the building.



Flow meter for Well No. 2.

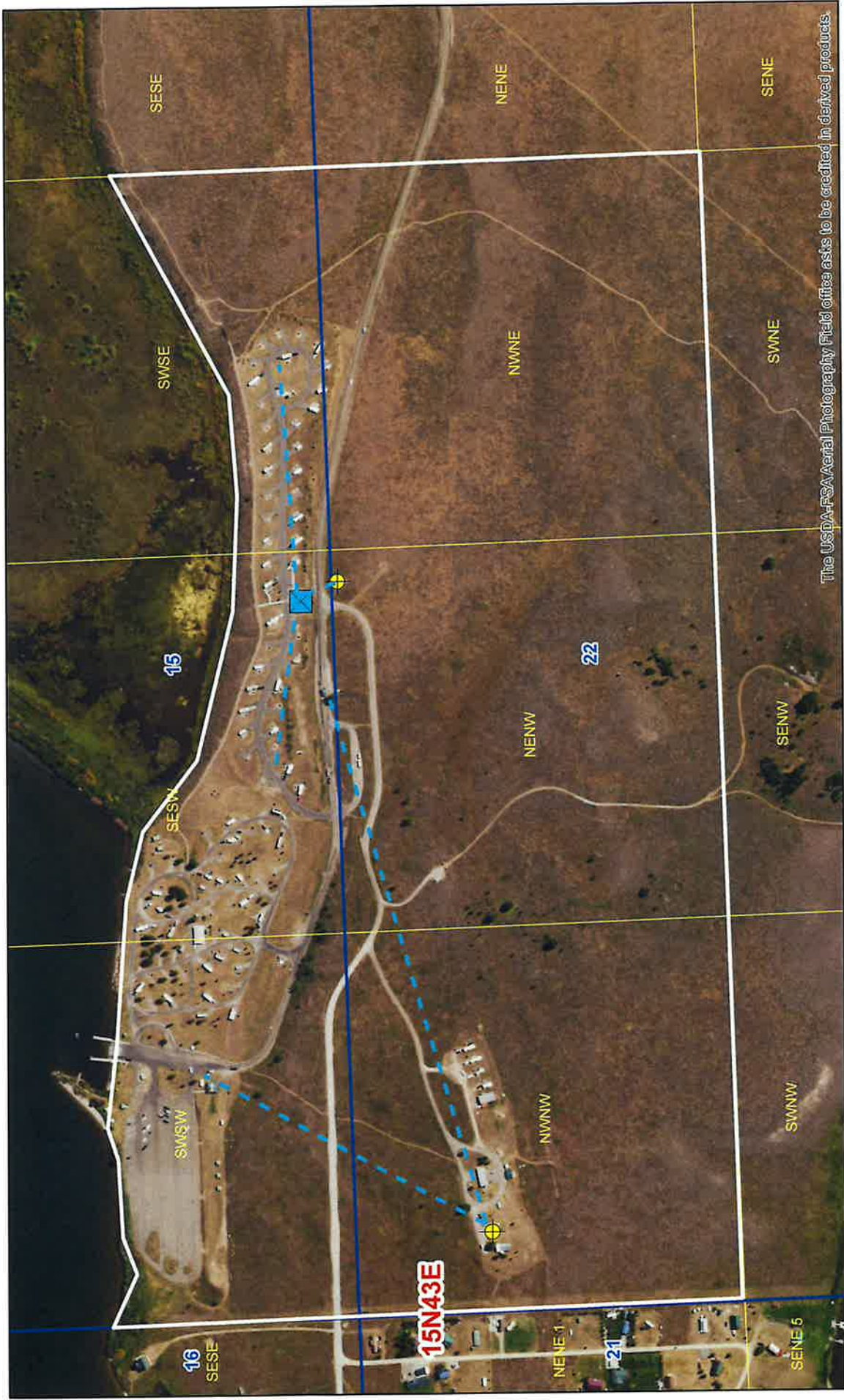




Flow rate for Well No. 2.



Well No. 2 is in the foreground. The Shower Building and the RV sites are seen in the background just before Henry's Lake.



The USDA-FSA Aerial Photography Field office asks to be credited in derived products.

	Township/Range
	Sections
	QQ
	Parks & Rec Place of Use