

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 92-10870
Exam Date: 06/28/2023

1. Current Owner:
EMIDA WATER & SEWER ASSN INC PO BOX 596 SAINT MARIES ID 83861-0596
2. Accompanied by: Amanda Quincy
Phone No: 208-582-6314
Address:
Relationship to permit Holder: City of Emida Water and Sewer Assoc. Board President

3. **SOURCE:**
GROUND WATER

Method of Determination: Field Examination Confirmation

B. OVERLAP REVIEW

1. Other water rights with the same place of use: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
92-7005	Ground Water	Municipal	Decreed

Comments: 92-7005 is the existing municipal water right for the City of Emida

2. Other water rights with the same point-of-diversion: NO Overlap

Water Right No.	Source	Purpose of Use	Basis
92-7005	Ground Water	Municipal	Decreed

Comments: 92-7005 diverts from the same well permitted in 92-10870

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER NE¼ SW¼, Sec. 33, Twp 44N, Rge 02W, B.M. BENEWAH County

Method of Determination: Field exam GPS confirmation (see attachments)

PLACE OF USE: FIRE PROTECTION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
44N	02W	33			X				X	X	X					X			

Method of Determination: GIS and taxlot data

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 Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
993794	Grundfoss	2		MS4000	

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
N/A						

Installed totalizer make/model: Sensus/Omni R²

2. Measurements: Panametric flow meter measurement was not possible here. Installed flow meter totalizer on main line was measured 3 times:

1 minute timeframe: 25 GPM

1 minute timeframe: 24 GPM

5 minute timeframe: 23.2 GPM

Weighted average given 5-min time being most accurate: $23.2(5/7) + 24(1/7) + 25(1/7) = 23.57 \text{ GPM} = 0.052 \text{ cfs}$ **E. FLOW CALCULATIONS**☐ Additional Computation Sheets Attached

Measured Method:

Applied for rate = 0.20 cfs

Recommended rate: 0.05 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation: N/A

2. Volume Calculations for Other Uses:

MUNICIPAL

$$\text{Maximum possible volume:} = \frac{23.57 \text{ gallons}}{\text{minute}} * \frac{60 \text{ minutes}}{1 \text{ hour}} * \frac{24 \text{ hours}}{1 \text{ day}} * \frac{365 \text{ days}}{\text{year}} * \frac{1 \text{ acre-ft}}{325900} = 38.02 \text{ acre-ft}$$

See Narrative for recommendations.

FIRE PROTECTION

N/A (exempt from volume reporting requirements)

G. NARRATIVE/REMARKS/COMMENTS

Emida Water and Sewer Assn. Inc. was issued a permit authorizing the diversion of 0.20 cfs from ground water for municipal and fire protection uses with a priority date of June 6, 2012. The permit holder was notified on June 17, 2017 that proof was due, and the permit lapsed on September 1, 2017 due to no proof being submitted. The permit holders filed an extension request, which was granted, and proof was due September 1, 2022. The permit lapsed again, but after notification, proof was submitted on October 3, 2022. The permit was reinstated with a new priority date of August 8, 2012.

A field exam was scheduled and performed on June 27, 2023, by Justin Shearer and I. We confirmed diversion from NE¼ SW¼, Sec. 33, Twp 44N, Rge 02W and the general place of use, as well as the location of the 35,000 gallon storage tank (see attached system diagram). The well drillers report for the well was found and is attached to this report. We were told by Amanda Quincy, the Emida Water and Sewer Association Board President, that the SW¼ NE¼, Sec. 33, Twp 44N, Rge 02W well was out of service and has been since prior to submitting the application. The original application states in the proposal that the purpose of the application was to get the secondary, backup well running to meet anticipated demand.

We were not able to use our Panametric flow meter, but the pumphouse had an exposed section of pipe with a flow totalizer installed. The totalizer was installed within the last 10 years and was developed for residential flows so it is assumed to be accurate to within 10%. Turning on the pump and recording the flow through the meter for 1 minute segments and a 5 minute segment resulted in a flow measurement of 0.05 cfs. That is my recommended rate. I calculated a maximum volume for the permit by multiplying the permitted rate by the duration of a year's continuous use, which is 38.0 acre-ft. Emida has existing municipal water right 92-7005 for 0.074 cfs and 41 acre-ft from the same wells, so no additional municipal use has been developed under this permit.

Permit 92-10870 also has fire protection as a use, which is not covered under their older water right, even though the system was in place when the original water right was decreed; Amanda Quincy, president, told me over the phone that the hydrants have existed since the 1970's. Pictures of the hydrants were taken by the permit holders and submitted via email. The place of use for fire protection I am recommending is the shape proposed by the permit. I recommend licensing only the fire protection use for 0.05 cfs and keeping only the 077 condition limiting fire protection use for active fires only. Condition 004 should also remain as the place of use is a mix of public and privately owned land. All other conditions can be dropped for licensing as they pertain to municipal water rights and ground water project development.

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	
FIRE PROTECTION	01/01 to 12/31	0.05 CFS	

Totals: 0.05 CFS

2. Recommended Amendments

____ Change P.D. as reflected above ____ Add P.D. as reflected above x None

____ Change P.U. as reflected above ____ Add P.U. as reflected above x None

I. AUTHENTICATION

Blake Burkard -

Field Examiner's Name  Date 3/7/2025

Reviewer  Date 3/7/25

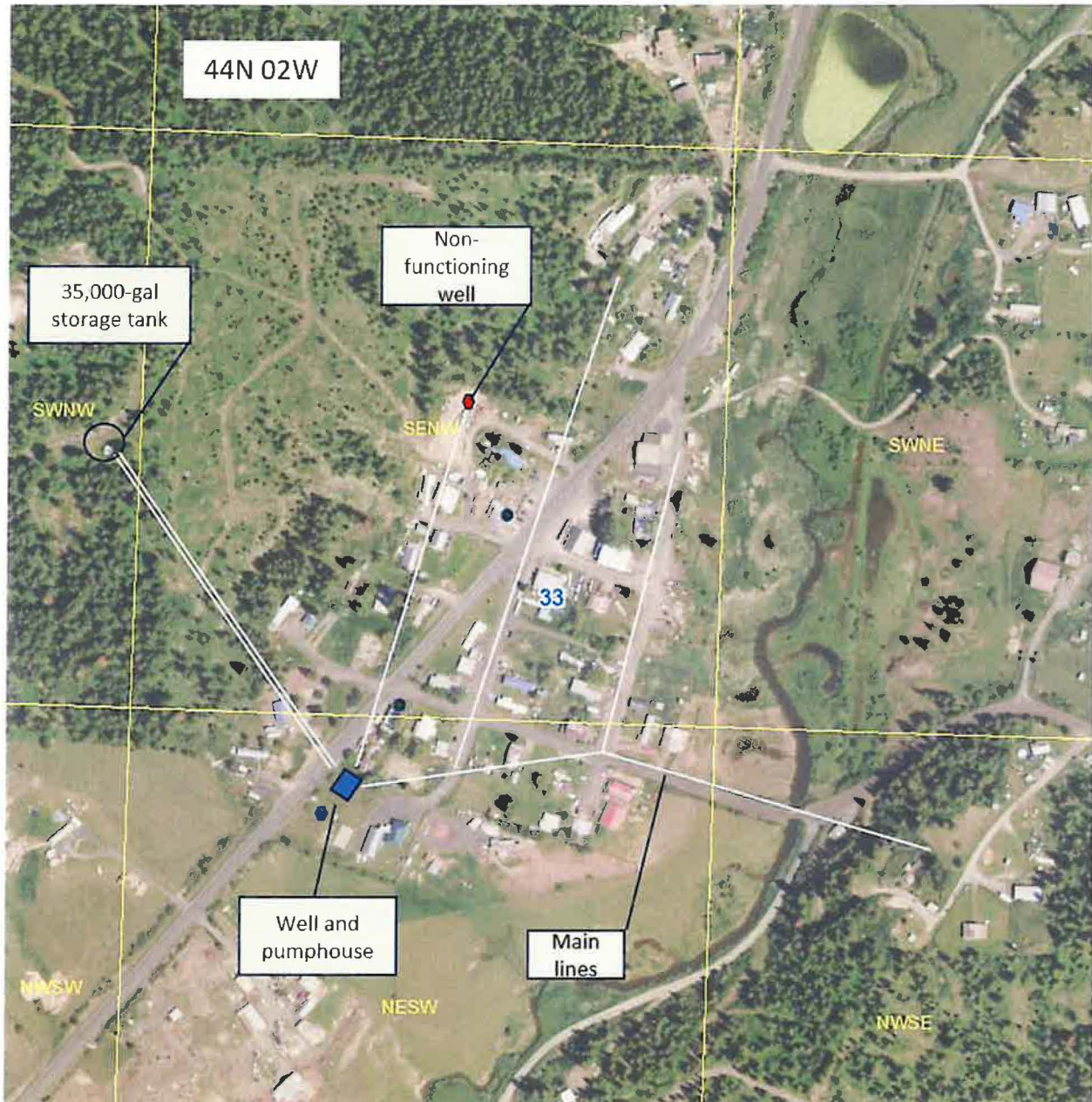


Figure 1: System Diagram. The unlabeled points are the fire hydrant locations. Southwest hydrant is by the Community Center, Northeast hydrant is by Drifters Cafe



Figure 2: Well with PWS E Tag



Figure 3: GPS for well head



Figure 4: Flow totalizer in pump house



Figure 5: Well pump make/model



Figure 6: 35,000 gallon storage tank



Figure 7: GPS for water storage



Figure 8: Fire Hydrant near Drifters Café

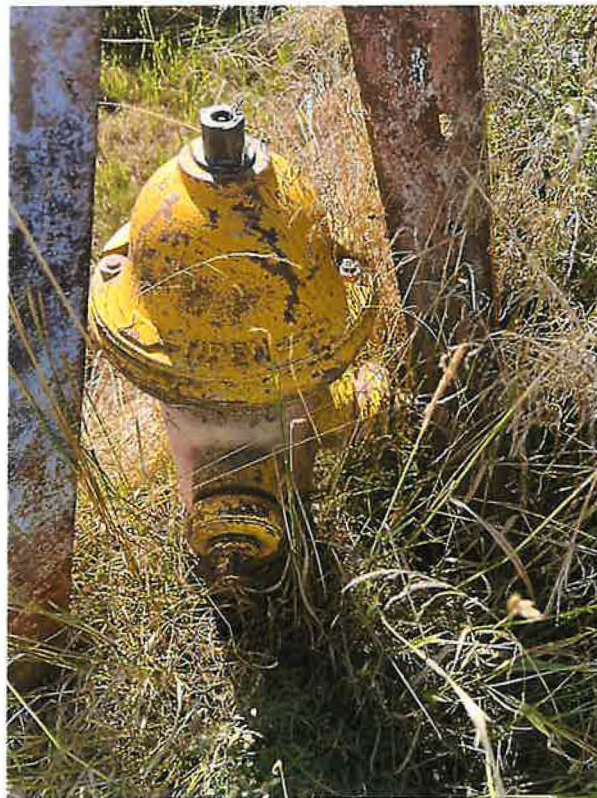


Figure 9: Fire Hydrant near Community Center

State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

[illegible]