

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
IN-OFFICE REVIEW/BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 96-11103

Exam Date: 06/14/2024

1. Does this qualify for an in-office field exam (IDAPA 37.03.02.035.01.r)? X Y N
- a. N/A Irrigation of 5 acres or less
- b. N/A Storage of up to 14.6 AF for stockwater purposes only
- c. X Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less.
- d. N/A Other < >

2. Current Owner: THEODORE SWANSTROM AND/OR JARAE SWANSTROM

Owner of Record Correct? X Y NAddress of Record Correct? X Y N

If No Explain:

- Bonner County Tax Parcel information shows Swanstrom, Theodore & Jarae as the owners of the property RP033970010020A. I don't see any issues with the ownership of this permit or proposed license.

3. Beneficial Use Fees have been paid: N/A – Groundwater source and beneficial use for which a license examination fee is not required IAW Statement of Completion instruction guidelines.

4. **SOURCE:** Groundwater

Method of Determination: ArcMap GIS and Tax Parcel Data.

Change in Source: Y X N**B. OVERLAP REVIEW**

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

Water Right No.	Source	Purpose of Use	Basis
96-7011	Lake Pend Oreille	Domestic	License, Notice of Claim filed in CFPRBA
96-8953	Lake Pend Oreille	Domestic	License, Notice of Claim filed in CFPRBA

Comments: Licensed Rights 96-7011 & 96-8953 show ownership by Oden Water Assn Inc, who serves domestic water to a large POU community system that overlaps this Permit's groundwater domestic POU. Claims have been filed by the Right Holder in the Clark Fork Pend Oreille River Basin Adjudication (CFPRBA). I requested additional information from Mr. Swanstrom about whether his residence was service connected to Oden Water Assn Inc's community system; in an email response DTD 6/12/2024 Ted Swanstrom asserted that they are "NOT" service connected and that the Oden water system doesn't extend East far enough to be an option. Based on this information there is no concern for overlap between 96-7011, 96-8953, and this Permit 96-11103.

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

C. DIVERSION AND DELIVERY SYSTEM

1. Location of Point(s) of Diversion:

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
GROUNDWATER	L8		NE	NE	3	57N	01W	B.M.	BONNER

Method of Determination: ArcMap aerial imagery.

Change in POD? Y X N Amendment Required? Y X N

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	
57N	01W	3	X	X															
		Lot#	L1 L8	L2 L7															

Method of Determination: GIS and Tax Parcel Data.

Change in POU? X N Amendment Required? X N

3. Diversion System Information:

Description: Groundwater well D0086629 constructed on 11/24/2020 with a Goulds 1hp (3 phase) pump & motor paired with a Goulds AquaSolo 3AS20 VFD Controller.

 Delivery System Diagram Attached. (mark all major components and distances between components)

 X Aerial Photo Attached (required)

 Photo of Diversion and System Attached

3. Diversion Id No.*	Motor Make	HP	Motor Model No.	Pump Make	Pump Serial No. or Discharge Size
D0086629	Goulds	1.0	3AS20	Goulds	Unknown

D. FLOW MEASUREMENTS

1. Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
NONE						

2. Measurement Comments: No measurement required for an in-office exam.

E. FLOW CALCULATIONS

Domestic:

- Measurement = 1 home authorized a diversion rate of 0.04 cfs based on Administrator's Memorandum, Application Processing No. 22: Definition of "Domestic".
- Permit allowed = 0.04 cfs
- License recommendation = 0.02 cfs based on theoretic pump equation detailed below & considering department rounding standards.

Comments:

Due to flow measurements not being required, I calculated a theoretic pump equation based on well driller report for the well associated with the water system as illustrated below:

Theoretical Pumping Equation is required because system did not allow for a proper measurement. Pump is estimated to lift 368 ft, and running at 45 psi.					
PUMP EQUATION					
WATER RIGHT No. 96-11103					
	HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
$Q = \frac{HP \times 8.8 \times \text{Eff}}{H}$	1	472.0816	0.8	368	45
Q = 0.015 cfs 6.7 gpm					

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: N/A

2. Volume Calculations for Other Uses: Maximum Diversion Volume equals **1.2 af** for 1 home with up to ½ acre irrigation covered under domestic use.**G. PURPOSE OF USE**Irrigation N/A N # Stock N/A Domestic # of Homes: 1

Other: < N/A >

Change in Purpose of Use? X N

Method of Determination: Bonner County tax lot data, information assessed on the Statement of Completion form, and email correspondence received from the Permit Holder.

H. NARRATIVE/REMARKS/COMMENTS

This permit qualifies for an in-house examination. Overlapping water right concerns have been evaluated there are no concerns toward licensing this Permit. I used ArcMap to assign the groundwater POD shifting it from the Permit POD to reflect the well centroid. Well driller GPS coordinates are located within the same QQ/Q legal description as the Permit POD, but are visually set back from the boundary between QQ/Q(s).

The applicant's parcel shows a year-built date of 2022 according to Bonner Co. tax parcel data, which coincides with a newly built residence using the well that was constructed on 11/24/2020. ArcMap imagery year 2023 shows the residence on the parcel. Mr. Swanstrom responded to an email inquiry for additional pump information, and I've included the correspondence and photograph of the pump motor relay control panel as supporting documentation to this report. Review of the applicant's pump installation invoice (attache), the Goulds 1 hp pump was rated at 5 gpm; theoretic pump equation derives a flow rate of 6.7 gpm or **0.02 cfs** which is recommended for licensing purposes. This rate is less than the permit authorized development for, but the Permit Holder is limited by pump performance as installed at time of Statement of Completion submission received 5/23/2024.

I used ArcMap aerial imagery, Google Earth software, and Bonner County GIS tax parcel maps to evaluate the domestic POU and assigned a 0.8 ac rectangular POU shape that encompasses the residence and allows for up to ½ acre irrigation which occurs on the property across four (4) legally described QQ/Qs. I've designated a maximum diversion volume of **1.2 af** for 1 home with ½ acre irrigation included for licensing purposes.

I removed condition 046 during licensing review. All other conditions shall be carried to license approval.

Have conditions of permit approval been met? X Yes No

I. RECOMMENDATIONS**1. Recommended Amounts**

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Annual Volume</u>
DOMESTIC	01/01 to 12/31	0.02 CFS	1.2 AF

Totals: 0.02 CFS 1.2 AF

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

Other: < N/A >

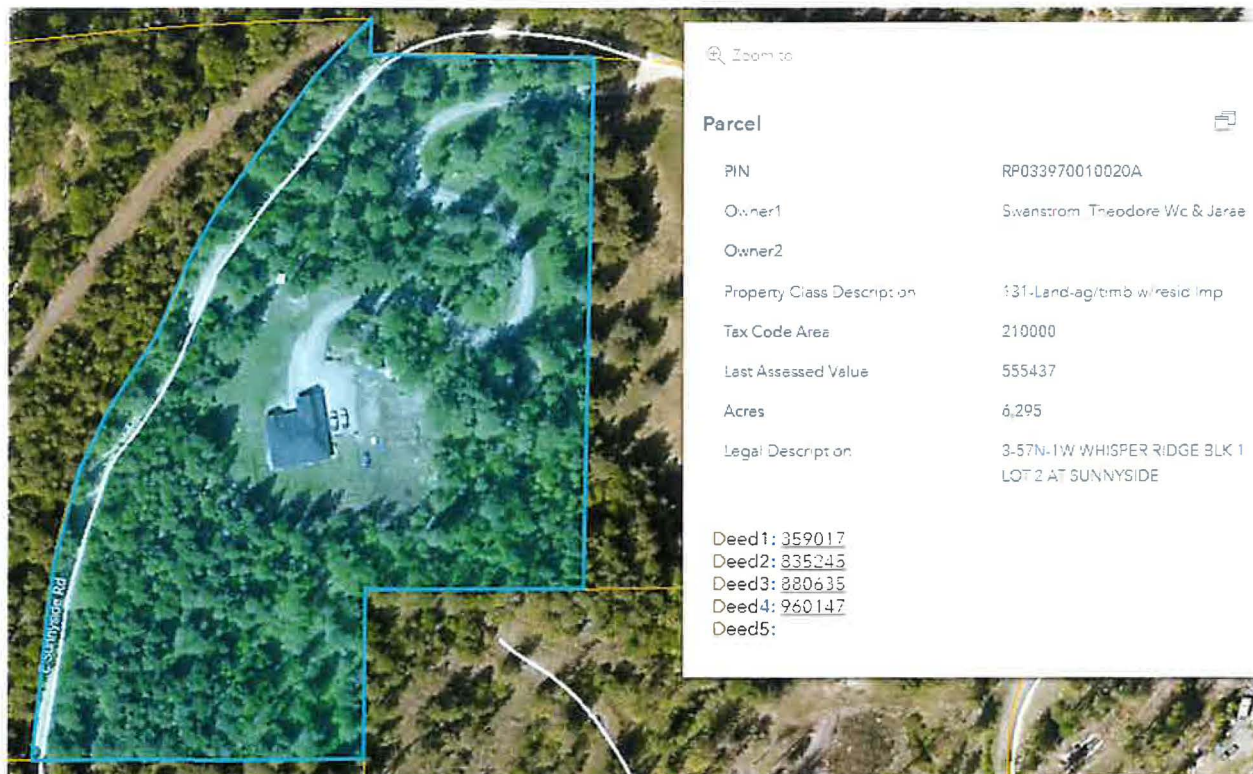
J. AUTHENTICATION Luke Bates – Sr Water Resource Agent

Field Examiner's [Signature] Date 6/14/2024

Reviewer [Signature] Date 6/26/2024

Field Exam Map(s): 120 E Sunnyside Rd, Sandpoint ID 83864. Lt 2, Blk 1; Whispering Ridge at Sunnyside Subdivision.

Bonner County Tax Parcel map retrieved from www.bonnercountyid.gov on 6/14/2024



Tax Parcel No. RP033970010020A

Bates, Luke

From: tswanstrom164@gmail.com
Sent: Wednesday, June 12, 2024 7:21 PM
To: Bates, Luke
Subject: Re: IDWR water permit 96-11103
Attachments: Pump System Estimate.pdf

CAUTION: This email originated outside the State of Idaho network. Verify links and attachments BEFORE you click or open, even if you recognize and/or trust the sender. Contact your agency service desk with any concerns.

Luke,

Thank you for the email. Attached is the estimate of the final stage including the well pump that we went with. Also attached is a picture of the pump controller we have.

As to the service to Oden Water Assn...we are NOT service connected to them and are not in their service area. Their piping stops west of us and they are not going to expand.

RECEIVED
JUN 12 2024
IDWR / NORTH



582 West Hayden Avenue • Hayden Lake, Idaho 83835
(208) 772-4004 Office • (800) 772-4901 Toll Free • (208) 772-4892 Fax • (509) 535-5554

CUSTOMER NAME: Ted Swanstrom

October 5, 2021

ADDRESS: 120 E Sunnyside Rd

WELL ID: D0086629

Estimate given prior to site development. **PUMP SET 368'**

Revised estimate may be required after site preparation is completed.

Estimated Proposal on "Constant Pressure" Pump System

Qty	Description	Each	Total
1	Goulds 5gpm 1hp (3-Phase) Pump / Motor		\$2,015.00
1	Goulds AquaSolo 3AS20 VFD Control		\$1,634.00
1	3yr. Warranty on Controller, 5 yr. Warranty on Pump & Motor		\$0.00
350	Drop Pipe 1"	\$2.90	\$1,015.00
380	Flat Jacket Submersible wire #10/3 w/grd	\$2.60	\$988.00
2	Check Valve 1" VFD	\$35.00	\$70.00
1	Misc. Job Supply		\$30.00
1	InWell Pressure Tank		\$975.00
1	Tank T Fittings		\$85.00
1	Pump Installation Labor		\$1,200.00
	Phase One Total	To top of Well	\$8,012.00
1	Well Cap 6"		\$76.00
1	Pitless Adaptor 1" PA		\$160.00
600	Wire 10/4 (4 runs @ 150' per run)	\$0.68	\$408.00
150	Shielded Wire	\$1.20	\$180.00
1	Underground Fittings Package		\$150.00
1	Marine Board Panel Assembly		\$189.00
1	Misc. Electrical Fittings		\$150.00
1	Plumbing and Wiring Labor		\$1,280.00
	Phase Two Total	Remainder of System	\$2,593.00
	Subtotal		\$10,605.00
	Optional Items:		
1	Water Analysis	\$80.00	\$80.00
1	Yard Hydrant, Parts & Labor	\$475.00	\$475.00
	Optional Items Total		\$555.00
	Subtotal		\$11,160.00
	Sales Tax		\$0.00
	Grand Total		\$11,160.00

Prices quoted are estimated amounts. Materials shall be at the price in effect at the time of installation.

Actual quantities and labor may vary.

Excavation, Backfill, Permits-Electrical & Plumbing are not included in this estimate.

Customer Acceptance: _____ Date: _____

RECEIVED
JUN 12 2024
IDWR / NORTH

96-11103



Image sent by Mr. Ted Swanstrom by email received on 6/12/2023 – illustrates the pump motor control panel.

Thanks,

Ted Swanstrom

On Jun 12, 2024, at 18:06, Bates, Luke <Luke.Bates@idwr.idaho.gov> wrote:

Mr. Theodore Swanstrom,

Good evening. I've been tasked with licensing review for Permit **96-11103**, which authorized development of ground water for Domestic use 1 home with up to ½ acre irrigation. I note your Statement of Completion was received by the Department on 5/23/2024.

The next step is a beneficial use field examination, which I plan to attempt accomplishing via an In-Office exam process. To expedite finalizing this permit for license approval I'm requesting additional water system information related to the groundwater well diversion system:

1. Do you have a copy of your well pump invoice which describes the pump make/model & horsepower (HP) of the pump? If not, there should be a gray relay control panel associated with the pump motor which typically has a data plate describing the HP paired with the pump. If possible, could you send me a photograph of the relay control panel box and close up of the data plate?
2. Please verify that your home is not service connected to the Oden Water Assn Inc larger domestic system. Your parcel falls within their service area, but you may not have opted into their water services if available.

Thank you in advance for considering the questions detailed above.

Please do respond to this email within 7 days, NLT 6/19/2024, as I work to finalize it for license approval. If I'm unable to obtain adequate information I may need to complete a site visit to complete the field examination process.

Thank you,

Luke Bates

Sr. Water Resource Agent

Northern Region

P: 208-762-2817

<image001.jpg>

7600 N. Mineral Dr., Suite 100
Coeur D'Alene, ID 83815-7763