

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 65-23589
Exam Date: 08/29/2023

1. Current Owner:

Novitas Academy
C/O Andy Sapp
PO BOX 678
Emmett Idaho 83617

New Property Owners:

Randy and Teri Hallman
3140 Cool Water Lane
EMMETT ID 83617

2. Accompanied by: Teri Hallman

Phone No: (208) 859-4077

Address: 3140 Cool Water Lane Emmett Idaho

Relationship to permit Holder: New property owner

3. SOURCE:

GROUND WATER

Method of Determination: Field Exam observation

B. OVERLAP REVIEW

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

YES Overlap

Water Right No.	Source	Purpose of Use	Basis
65-23588	Ground Water	Aesthetic	License (2014)
65-1160	Ground Water	Domestic	Decreed

Comments: Aesthetic Water Right 65-23588 is for two existing aesthetic ponds on the property. Domestic Water Right 65-1160 is associated with a second home on the property. A Notice of Change in Water Right Ownership needs to be completed by Randy & Teri Hallman.

2. Other water rights with the same point-of-diversion: **None**

C. DIVERSION AND DELIVERY SYSTEM

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

GROUND WATER L1 (NW¼ NW¼), Sec. 34, Twp 07N, Rge 01W, B.M. GEM County

Method of Determination: Field Exam observations and on-the-ground GPS coordinates.

PLACE OF USE: DOMESTIC

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
07N	01W	34						X L1											

PLACE OF USE: COMMERCIAL

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
07N	01W	27											X L10						
07N	01W	34						X L1											

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	
07N	01W	27											X L10						
07N	01W	33	X L4																
07N	01W	34						X L1											

PLACE OF USE: STOCKWATER

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
07N	01W	27											X L10						
07N	01W	34						X L1											

PLACE OF USE: IRRIGATION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
07N	01W	34						0.5 L1											0.5

Total Acres: 0.5

Method of Determination: **Field Exam observations.**

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.*
1003224

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Portable Flowmeter	Ultrasonic	General Electric	PT878	04031		April 2023

2. Measurements:

E. FLOW CALCULATIONS X Additional Computation Sheets Attached**Measured Method:** See attached computation sheet.**F. VOLUME CALCULATIONS**

1. Volume Calculations for irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 0.5 \text{ acres} \times 4.5 \text{ AFA} = 2.25 \text{ or } \mathbf{2.3 \text{ AF}}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.14 \text{ cfs} \times 260 \text{ days} \times 1.9835 = 72.2 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = \mathbf{2.3 \text{ AF}}$$

2. Volume Calculations for Other Uses:

Domestic: **0.6 AF** in-house w/o irrigation (Application Processing Memo # 22)Stock Water: **0.5 AF**Commercial: **3.2 AF**Irrigation: **2.3 AF**Fire Protection: **N/A** (no limit to fight an active fire)See attached computation sheet for Other Uses volume calculations.**G. NARRATIVE/REMARKS/COMMENTS**

On August 29, 2023, I conducted a field exam for groundwater permit 65-23589, with Novitas Academy listed as the current owner. Randy and Teri Hallman have purchased the property but permit 65-23589 is still in the name of Novitas Academy. Ground Water permit 65-23589 was originally approved with two points of diversion and a total diversion rate of 3.91 cfs and up to 90 AF (Condition WB7) for the combined uses of Domestic (0.11 cfs), Fire Protection (3.35 cfs), and Irrigation (0.45 cfs) of 26.0 acres.

Teri Hallman accompanied me on the exam and explained the beneficial uses that have been developed. Only one of the two proposed points of diversion were developed so one point of diversion will be dropped at licensing. There are two distribution lines from the well: one for Fire Protection and one for all other uses. Domestic, Fire Protection, and Irrigation uses were

developed but with less water use than originally proposed. Domestic use was originally proposed for a Boarding School with up to 80 students/staff. Mrs. Hallman explained that the developed Domestic use is for one home, without irrigation (irrigation is accomplished with canal shares). Therefore, Domestic use will be licensed for 0.04 cfs and 0.6 AF. Fire Protection was originally proposed with a flow rate of 3.35 cfs. I used an ultrasonic flow meter to record a flow rate of 0.16 cfs. Fire Protection use will be licensed with a flow rate of 0.16 cfs and no volume limitation. Irrigation use was originally proposed with a diversion rate of 0.45 cfs for 26.0 acres. The Field Exam revealed that most of the property is irrigated with canal shares and only 0.5 acre of irrigation was developed using ground water. This 0.5 acre of irrigation is irrigated with only well water and not canal water. Irrigation use will be licensed for 0.02 cfs and 2.3 AF.

Stockwater and Commercial uses were developed which were not originally proposed on the Permit. I used the bucket and stopwatch method to measure a flow rate of 0.07 cfs on the distribution line that supplies water for the non-fire protection uses. Stockwater use has been developed for up to 36 head of livestock and will be licensed for 0.07 cfs and 0.5 AF. As mentioned above, the permit originally proposed Domestic use for a boarding school. However, the building intended for the boarding school has been developed as an event center, which is a commercial enterprise. Mrs. Hallman indicated that up to 200 people attend the event center. Commercial use for up to 200 people will be added to the permit and will be licensed at 0.07 cfs and 3.2 AF. A licensing amendment was sent to the applicants to address the two new uses. The signed licensing amendment and \$100.00 fee was received at Southern on 02/02/2024.

As mentioned in the first paragraph, the permit was approved for a total diversion rate of 3.91 cfs for Irrigation, Domestic, and Fire Protection and a total diversion volume of up to 90 AF (condition WB7). Adding Stockwater and Commercial uses to the license will bring the overall combined rate and volume to 0.36 cfs and 6.6 AF which is less than 10% of the original approved amounts on the permit.

I recommend licensing Water Permit 65-23589 for the following uses and amounts:

- Domestic: 0.04 cfs and 0.6 AF
- Fire Protection: 0.16 cfs and no volume
- Irrigation: 0.02 cfs and 2.3 AF
- Stock Water: 0.07 cfs and 0.5 AF
- Commercial: 0.07 cfs and 3.2 AF
- Overall rate and volume: 0.23 cfs and 6.6 AF

See the attached calculation sheet for the rates and volumes shown above.

Have conditions of permit approval been met? X Yes No

H. 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	0.04 CFS	0.6 AF
COMMERCIAL	01/01 to 12/31	0.07 CFS	3.2 AF
FIRE PROTECTION	01/01 to 12/31	0.16 CFS	
STOCKWATER	01/01 to 12/31	0.07 CFS	0.5 AF
IRRIGATION	03/01 to 11/15	0.02 CFS	2.3 AF

Totals: 0.23 CFS 6.6 AF

2. Recommended Amendments

Change in nature of use / S.

____ 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

Kent Aasa -

Field Examiner's Name: Kent Aasa

Date

02-06-2024

Reviewer

Date

2/12/2024

65-23589 POD



65-23589 Measurement



65-23589 Commercial POU



65-23589 Domestic POU



65-23589 Stock Water POU



65-23589 Irrigation POU



Volume and Flow Calculations for 65-23589

Flow Measurements Calculations:

A flow rate of 0.07 cfs was measured, with a 5-gallon bucket and stopwatch, that is associated with the distribution system that supplies water for Commercial/Stockwater.

- Bucket/stopwatch measurement at Hydrant:
 - Measurement #1: 10.04 seconds
 - Measurement #2: 9.80 seconds
 - Measurement #3: 10.71 seconds
 - Measurement #4: 10.70 seconds
 - Measurement #5: 10.2 seconds
 - Measurement Average: 5 gallons in 10.3 seconds

$$5 \text{ gallons} \div 10.3 \text{ seconds} = 0.485436893$$

$$0.485436893 \times 60 = 29.12621359 \text{ gallons per minute}$$

$$29.12621359 \text{ gallons/minute} \div 448.83 \text{ gallons/minute per cfs} = 0.065 \text{ cfs or } \mathbf{0.07 \text{ cfs}}$$

- Fire Protection flow rate was measured with a General Electric PT878 portable polysonic flow meter. A flow rate of 72 gallons per minute was recorded through a two-inch diameter pipe.
- $72 \text{ gallons} \div 448.83 \text{ gallons per minute per 1 cfs} = 0.161 \text{ cfs or } \mathbf{0.16 \text{ cfs}}$

Commercial Use for the Event Center/shower building:

- 200 people per event
- 100 gpd/person
- 52 events per year
- $(200 \text{ people}) (100 \text{ gallons/person}) (52 \text{ events/year}) = \frac{1,040,000 \text{ gallons/year}}{325,850 \text{ gallons/AF}} = 3.2 \text{ AF}$
- Measured flow rate (bucket and stopwatch) of **0.07 cfs**

Domestic Use:

- One home for in-house use only
- Domestic irrigation is accomplished with canal water.
- IDWR standard of **0.04 cfs and 0.6 AF**

Irrigation Use:

- 4.5 AFA
- 0.5 acres
- $(4.5 \text{ AFA}) (0.5 \text{ acres}) = 2.25 \text{ AF}$ or **2.3 AF**
- **0.02 cfs**

Stock Water Use:

- Livestock: 36 head
- IDWR standard of 12 gallons per day per head
- $(36 \text{ head}) (12 \text{ gpd}) (365 \text{ days}) = 157,680 \text{ gallons}$
- $157,680 \text{ gallons} \div 325,850 \text{ gallons per AF} = 0.48$ or **0.5 AF**
- Flow Rate (bucket and stopwatch): **0.07 cfs**

Form 238-7
6/07IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

1. WELL TAG NO. D 0072956

Drilling Permit No. 974440-880497

Water right or Injection well # _____

2. OWNER:

Name Dr. Andy SappAddress PO Box 678City Emmett State ID Zip 83617

3. WELL LOCATION:

Twp. 7 North ☒ or South ☐ Rge. 1 East ☐ or West ☒Sec. 34 1/4 NW 1/4 NW 1/4Gov't Lot _____ County GemLat. 43 54.42 (Deg. and Decimal minutes)Long. 116 27.05 (Deg. and Decimal minutes)Address of Well Site 2625 N. Plaza RdCity Emmett

Lot _____ Blk _____ Sub. Name _____

4. USE:

☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation ☐ Thermal ☐ Injection
☒ Other Public Drinking Water

5. TYPE OF WORK:

☐ New well ☒ Replacement well ☐ Modify existing well
☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☒ Air Rotary ☐ Mud Rotary ☐ Cable ☐ Other _____

7. SEALING PROCEDURES:

Seal material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method/procedure
Grout	88'	91'	16.4 gal	Poured
Cement Grout	0	90'	2.85 yd ³	Poured

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Linear	Threaded	Welded
8"	+2'	110'	.322	Steel	☒	☐	☐	☒
12"	0	27'	.330	Steel	☒	☐	☐	☒
					☐	☐	☐	☐
					☐	☐	☐	☐

Was drive shoe used? ☐ Y ☒ N Shoe Depth(s) _____

9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☒ N Method _____Manufactured screen ☒ Y ☐ N Type JohnsonMethod of installation Washed In

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
110'	130'	.030	-	8"	SS	Sch 40
130'	140'	.020	-	8"	SS	Sch 40

Length of Headpipe _____ Length of Tailpipe _____

Packer ☐ Y ☒ N Type _____

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method
6/12 Silica	90'	140'	3/4 yd	Poured

11. FLOWING ARTESIAN:

Flowing Artesian? ☐ Y ☒ N Artesian Pressure (PSIG) _____

Describe control device _____

12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) 6' Static water level (ft) 6'Water temp. (°F) 60.08° Bottom hole temp. (°F) 60.08°Describe access port Well Cap

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)	Pump	Boiler	Air	Flowing Artesian
102 ft.	60 gpm	8 Hrs.	☒	☐	☐	☐
			☐	☐	☐	☐

Water quality test or comments: _____

13. LITHOLOGIC LOG and/or repairs or abandonment:

Bore Dia. (in)	From (ft)	To (ft)	Remarks, lithology or description of repairs or abandonment, water temp.	Water	
				Y	N
12"	0	24'	Sand & Gravel	X	
12"	24'	25'	Tan Clay		X
12"	25'	28'	Blue Clay		X
12"	28'	30'	Tan Clay		X
12"	30'	36'	Blue & White Sand	X	
12"	36'	42'	Blue Clay		X
12"	42'	50'	Blue Baked Clay		X
12"	50'	56'	Blue Sandy Clay		X
12"	56'	57'	Sandstone	X	
12"	57'	74'	Blue Baked Clay		X
12"	74'	76'	Sandstone	X	
12"	76'	110'	Blue Baked Clay		X
12"	110'	117'	Blue & White Sand	X	
12"	117'	126'	Blue Baked Clay		X
12"	126'	132'	Sandstone	X	
12"	132'	138'	Blue & White Sand	X	
12"	138'	141'	Blue Baked Clay		X

Completed Depth (Measurable): 140 ft.Date Started: 10/11/2016 Date Completed: 10/24/2016

14. DRILLER'S CERTIFICATION:

I/We certify that all minimum well construction standards were complied with at the time the rig was removed

Company Name Post Drilling Inc. Co. No. 670*Principal Driller [Signature] Date 10/28/2016*Driller [Signature] Date 10/28/2016

*Operator II _____ Date _____

Operator I [Signature] Date 10/28/2016

* Signature of Principal Driller and rig operator are required.

State of Idaho
Department of Water Resources

Water Right

65-23589

Domestic

01W



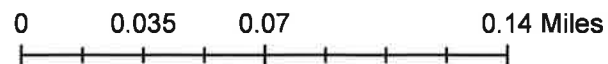
0 0.035 0.07 0.14 Miles

-  Place Of Use Boundary
-  Townships
-  PLS Sections
-  Quarter Quarters
-  Point of Diversion
-  State Outline



Commercial

07N



-  Place Of Use Boundary
-  Townships
-  PLS Sections
-  Quarter Quarters
-  Point of Diversion
-  State Outline



State of Idaho
Department of Water Resources

Water Right

65-23589

Fire Protection



0 0.05 0.1 0.2 Miles

-  Place Of Use Boundary
-  Townships
-  PLS Sections
-  Quarter Quarters
-  Point of Diversion
-  State Outline



State of Idaho
Department of Water Resources

Water Right

65-23589

Stockwater

01W



0 0.05 0.1 0.2 Miles

-  Place Of Use Boundary
-  Townships
-  PLS Sections
-  Quarter Quarters
-  Point of Diversion
-  State Outline



State of Idaho
Department of Water Resources

Water Right

65-23589

Irrigation

01W



0 0.035 0.07 0.14 Miles

-  Place Of Use Boundary
-  Townships
-  PLS Sections
-  Quarter Quarters
-  Point of Diversion
-  State Outline

