

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 79-14227

Exam Date: 8/13/2013

1. Current Owner: BUY THE WAY LLC
217 E MAIN ST
PO BOX 711
GRANGEVILLE ID 83530
(208)983-0262
2. Accompanied by: Dave Wymer
Phone No: Same
Address: Same
Relationship to Permit Holder:

3. SOURCE TRIBUTARY
JOHNS CREEK ROCK CREEK

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 79-14134
2. Other water rights with the same point of diversion: 79-14134

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

JOHNS CREEK NW1/4SW1/4 Sec. 25, Twp 30N, Rge 02E, B.M.
IDAHO County

Method of Determination: Arc Map (Aerial Photo)

2.

PLACE OF USE: RECREATION STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
30N	02E	25											X						

PLACE OF USE: AESTHETIC STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
30N	02E	25											X						

DIVERSION TO STORAGE same as AESTHETIC
STORAGE

Method of Determination: Arc Map (Aerial Photo); Tax Lots.

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>
N/A	N/A		N/A	N/A	4"

*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>
N/A						

2. Measurements: No field measurement. Unable to place 5-gallon bucket at the inlet pipe. Low flow in Johns Creek would not provide a good representative flow measurement as during normal flows in Johns Creek.

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method: (Manning's Equation)

$$Q = 1.49/nAR^{2/3}S^{1/2} = (1.49/0.013)(0.087)(0.083)^{2/3}(0.05)^{1/2}$$

$$Q = (114.62)(0.087)(0.189)(0.223) = 0.42 \text{ cfs}$$

$$Q(\text{theoretical}) = 0.42 \text{ cfs} < 0.60 \text{ cfs } Q(\text{permit})$$

$$S = 0.05 \text{ ft/ft (Estimated)}$$

$$A = 0.087 \text{ ft}^2$$

$$R = D/4 = 0.083'$$

$$n = 0.013$$

Appears that due to the flat slope of the inlet pipe to the storage pond, the current delivery system cannot attain the permit diversion rate of 0.60 cfs.

Recommend the theoretical pipe flow capacity of 0.42 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: N/A

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

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

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

2. Volume Calculations for Other Uses: (Aesthetic & Recreation Storage Pond)

Total Storage Volume Allowed – 3.5 AF

Water Right 79-14134 Storage Volume = 1.5 AF

Water Right Permit No. 79-14227 = 2.0 AF

Volume = 2.0 AF

G. NARRATIVE/REMARKS/COMMENTS**WATER SUPPLY SYSTEM:**

Water from Johns Creek is diverted through 4" ABS pipe to a recreation and aesthetic storage pond. In Johns Creek, the 4" ABS supply line inlet is enclosed in a 2' x 2' wire box to screen fish and debris from entering the 4" ABS supply line.

The recreation and aesthetic storage pond, which has a surface area of approximately 0.15 acres, contains a screened outlet channel to convey water back to Johns Creek. A 4" ABS emergency overflow pipe, which discharges to Johns Creek, is located northerly of the outlet channel.

OVERLAP ANALYSIS:

Point of Diversion: Water Right Permit No. 79-14227 and Water Right 79-14134 have an overlapping point of diversion in Johns Creek.

Place of Use: Water Right Permit No. 79-14227 and Water Right 79-14134 have an overlapping place of use (recreation and aesthetic storage pond).

Have conditions of permit approval been met? X Yes No

RATE &/OR STORAGE RECOMMENDED FOR LICENSING

Description	Rate of Flow (cfs)		Storage (af)
Permit Amount	0.6	&/or	2.0
Beneficial Use Limit	0.6	&/or	N/A
System Measurement	0.42(theoretical)	&/or	N/A
Proof Fee Amount	1.0	&/or	N/A
Recommended Amount	0.42	&/or	2.0

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
DIVERSION TO STORAGE	01/01 to 12/31	0.420 CFS	
RECREATION STORAGE	01/01 to 12/31		2.00 AF
AESTHETIC STORAGE	01/01 to 12/31		2.00 AF
<u>Totals:</u>		0.420 CFS	2.00 AF

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 Rick Collingwood Date 12/30/13

Reviewer _____ Date _____

MEMORANDUM

TO: File 79-14227

FROM: KAY WALKER *kw*

RE: Field Exam & Recommendations

Date: January 10, 2014

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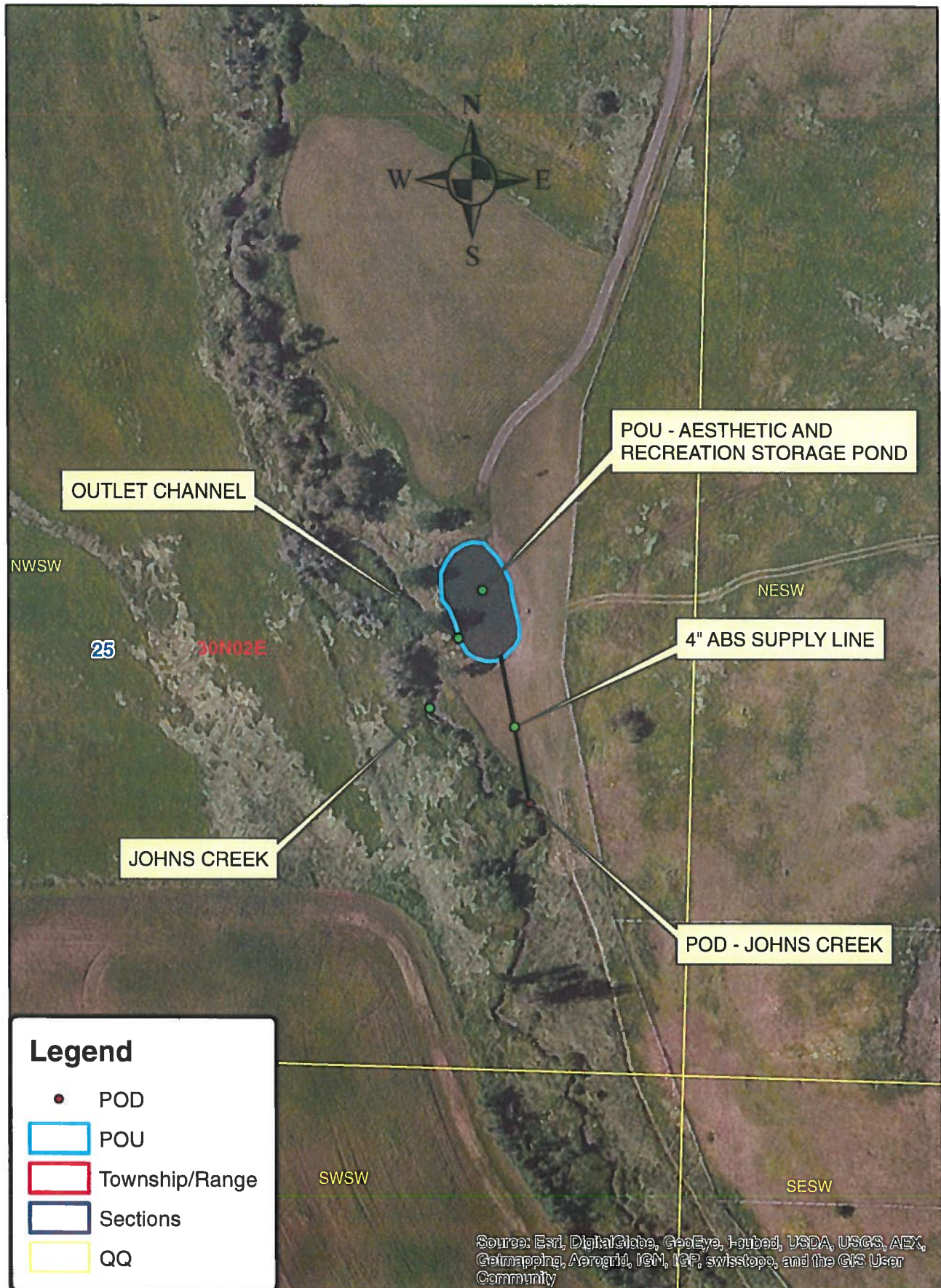
In review of this exam it was noted that there was a previous field exam done on this system in 2008 under Right No. 79-14134. That exam found the system could produce 0.62 cfs for a pond that was 3.5 af in size. Following that exam the examiner contacted permit holders and advised them that they needed to file for an additional water right to cover the system that had been developed in excess of what had been permitted. This right was then filed to cover the excess development found by the prior examiner.

When field exam was conducted on this permit, 79-14227, in August of 2013, the flow in Johns Creek was so low a measurement could not be made. The examiner based his flow rate on a theoretical measurement and found a rate of 0.42 cfs was being used for the 3.5 af pond.

In discussing this with field examiner it was determined that we should use the rate found in 2008 since that was determined by an actual measurement rather than a theoretical. We will use the 0.62 cfs found in 2008 as system capacity rate and recommend 0.47 cfs be licensed. This amount will cover the entire rate measured in 2008 ($0.62 - 0.15 = 0.47$ cfs). The volume of the pond has not changed from prior exam.

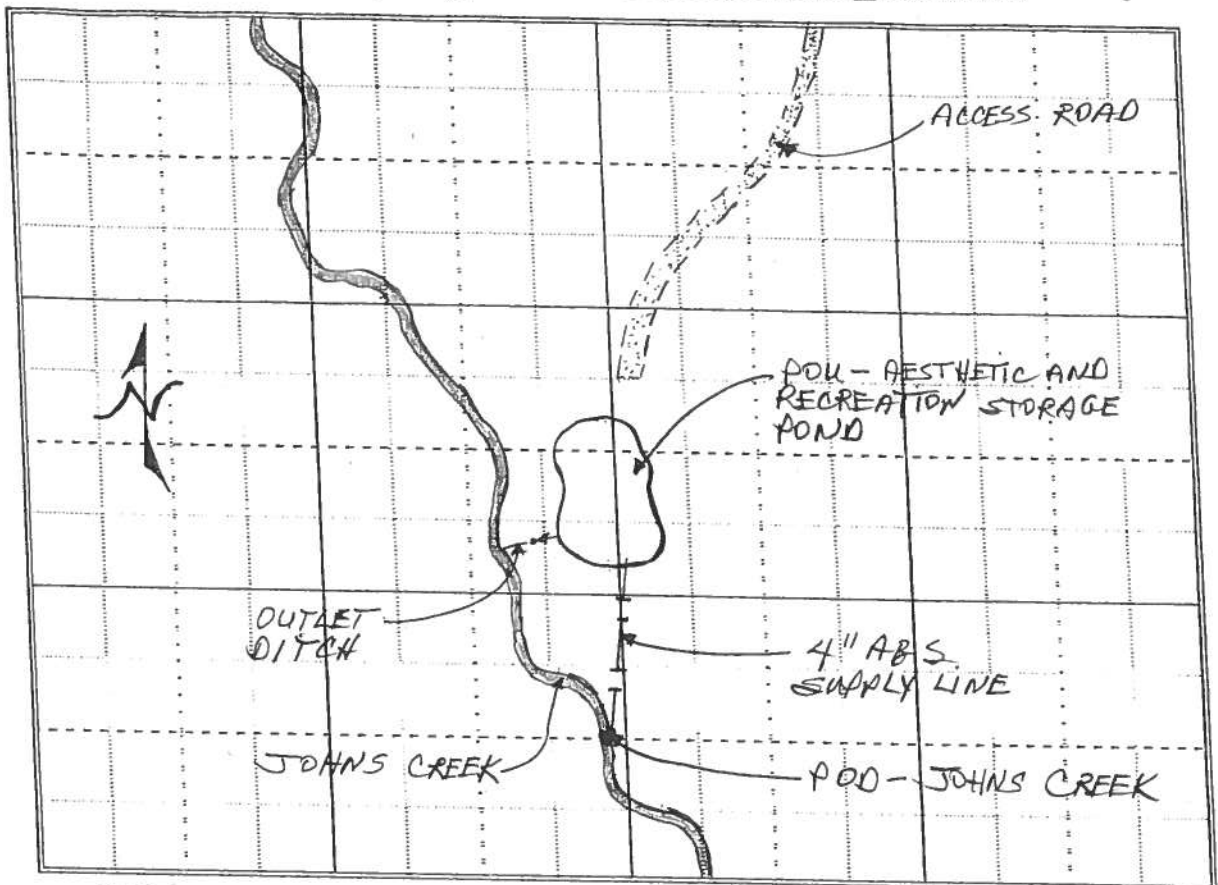
79-14227

ESRI AERIAL PHOTO - 2012



0 37.5 75 150 225 300 Feet

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe diameter (inside), as applicable. Use the space provided or ☐ see attached.



Scale: 1" = NTS

- ☐ Copy of USGS Quadrangle attached showing location(s) of point(s) of diversion and place(s) of use (required)
☒ Aerial photo attached (required for irrigation of 10+ acres)
☒ Photo of diversion and system attached

FIELD EXAM PHOTOS

Water Right Permit: 79-14227

Field Exam Date: 8-13-13

PLS: NW1/4, SW1/4 Section 25, T.30N, R.02E

Field Examiner: RC



Point of Diversion: View westerly of a 2' x 2' wired screen box at the end of the 4" PVC supply line in Johns Creek. Water is discharged to an aesthetic and recreation storage pond located in Lot 1, Block A, of the Crimson Ridge Subdivision.



Place of Use: View northeasterly of the southerly end of the aesthetic and recreation storage pond, and the 4" ABS supply line from Johns Creek.



Place of Use: View northerly of the aesthetic and recreation storage pond.



View of storage pond screened outlet channel to divert water back to Johns Creek.



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region, 2735 Airport Way • Boise, Idaho 83705-5082

Phone: (208) 334-2190 • Fax: (208) 334-2348 • Web Site: www.idwr.idaho.gov

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Interim Director

August 6, 2012

Buy the Way, LLC
217 E. Main Street
P.O. Box 711
Grangeville, ID 83530

RE: Scheduling Field Exam for Water Right Permit No. 79-14227

We are planning to **conduct water right field examinations** in the vicinity of the above-referenced permit **on August 29, 30, & 31, 2012**. An examination is needed to verify your water use in order to issue a water right license.

Please be advised that you will need to operate your system under normal operating conditions during the examination. The permit authorizes the diversion of 0.60 cfs of surface water from Johns Creek for 2.00 AF of recreation and aesthetic storage.

In order to conduct your exam as efficiently as possible, we ask that you call this office to schedule a day and time convenient for you. **Please call me at 208-334-2190 by August 14, 2012, to conduct the exam on August 29, 30, or 31, 2012.** If there is a problem with scheduling or conducting the examination at this time, please let me know so we can reschedule or make other arrangements.

I appreciate your attention to this matter and I look forward to hearing from you.

Sincerely,

A handwritten signature in black ink that reads "Rick Collingwood". The signature is written in a cursive, flowing style.

Rick Collingwood, P.E.
Water Resource Agent, Sr.