

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 37-20743

Exam Date: 6/5/2013

1. Current Owner: BRIAN L SMITH
PO BOX 629
BELLEVUE ID 83313
(208)788-7755
- DIANE STEFFEY-SMITH
PO BOX 629
BELLEVUE ID 83313
(208)788-7755

2. Accompanied by: Brian Smith

3. SOURCE

BIG WOOD RIVER
GROUND WATER

TRIBUTARY

MALAD RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: Mitigation: 37-21665; 37-21672; 37-21681; 37-21690; 37-21699 and 37-21708.
2. Other water rights with the same point of diversion: Big Wood River rights delivered via District No. 45 Canal and the following ground water rights: 37-2557Y; 37-20755; 37-20756; 37-20757; 37-20758; 37-20868; 37-21504; 37-21507; 37-21508; 37-21509; 37-21510; 37-21664; 37-21665; 37-21668; 37-21841; 37-21842; 37-21843; 37-21844; 37-21845 and 37-21977.

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

BIG WOOD RIVER	NE1/4SW1/4NW1/4	Sec. 36,	Twp 02N,	Rge 18E, B.M.
BLAINE County				
GROUND WATER	NW1/4SE1/4SW1/4	Sec. 7,	Twp 01N,	Rge 19E, B.M.
BLAINE County				

Method of Determination: Waypoints were collected with a Garmin GPSmap 60CSx receiver and downloaded into an ArcMap shapefile that corresponds with 2009 and 2011 aerial photography and verified the points of diversion are located as recorded. See attached map.

2.

PLACE OF USE: AESTHETIC STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
01N	19E	7															X		

PLACE OF USE: DIVERSION TO STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
01N	19E	7	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
																	X		

PLACE OF USE: FIRE PROTECTION STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
01N	19E	7	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
																	X		

Method of Determination: Tracks were collected with a Garmin GPSmap 60CSx receiver and downloaded into an ArcMap shapefile that corresponds with 2009 and 2011 aerial photography and verified the place of use is located as recorded. See attached map.

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>
Well 374205					
Diversion 691983					

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>
Current Meter		Swoffer	2100	4583		

2. Measurements: Flow measurements were taken in a ditch upstream of the pond using a Swoffer current meter. Flow through the ditch into the pond was estimated at 1.34 cfs.

E. FLOW CALCULATIONS N/A

____ Additional Computation Sheets Attached

Measured Method:

F. VOLUME CALCULATIONS**1. Volume Calculations for Other Uses: Aesthetic Storage and Fire Protection Storage:**

Surface area of reservoir = 0.23 acres

Determined using 2011 aerial photography in Arcmap.

Reservoir Capacity = **1.2 AF**

Determined using flat bottom reservoir equation from IDWR Field Examiners Handbook and information provided in permit application.

0.23 acres x 5.35 feet = 1.2 AF

(Capacity = Surface area x Maximum Depth)

G. NARRATIVE/REMARKS/COMMENTS

Permit 37-20743 is for 3.50 AF Aesthetic Storage; 3.50 AF Fire Protection Storage and 0.050 cfs Diversion to Storage. Application for permit 37-20743 was submitted 02/17/2011 and Proof of Beneficial Use was received on 07/09/2012.

According to Brian Smith the pond was developed by the previous property owner and when he purchased the property he paid attorneys a small fortune to "make it a legal pond." The pond has an average depth of 5.35' and a surface area of 0.23 acres. The ditch exits the pond on the south end and delivers water to the Bloomfield property into a pond and then back out to the lateral. There is also a dry hydrant for firefighting purposes located at the south end of the pond.

The first thing Mr. Smith did when I arrived was move a few rocks to expose the impermeable lining in the pond, which he requested I push on to demonstrate its durability and thickness, which I did. We walked the ditch up to the headgate on the canal looking for a place to take a flow measurement. The measurement was taken on the ditch several feet above the inlet to the pond at a spot with a fairly uniform depth. Using a Swoffer current meter I measured the flow rate at **1.34 cfs**.

Downstream of the measurement point, the ditch services 2 properties and the following water rights:

Brian Smith property – Big Wood River rights 37-21672, 37-21681, 37-21690, 37-21699 and 37-21708 limited to **0.416 cfs** when combined. Ground water right 37-21665 and this right, 37-20743, are limited to 0.16 cfs when combined. Ground water rights weren't being delivered on the exam date as they are delivered after priority cuts are made on the surface water rights. G. R. Bloomfield property- Big Wood River rights 37-21521, 37-21532, 37-21543, 37-21554, 37-21565, and 37-8915 (Big Wood and ground water aesthetic) for a total of **0.426 cfs**. Ground water right 37-21509 for 0.160 cfs is subordinate to surface water rights and also wasn't being delivered on exam date.

Total cfs for surface water rights delivered downstream of the measurement location is **0.842 cfs**. The measured flow of **1.34 cfs** indicates that Wood River Valley Irrigation District No. 45 is delivering sufficient flow to satisfy the right.

There are several Big Wood River rights 37-21914 (nominal shape in ArcMap); 37-21880 (nominal shape in ArcMap) ; 37-21863; 37-21897; 37-21931 and ground water right 37-21976 (nominal shape in ArcMap) owned by Bellevue Farms Landowners Assn, that are delivered to a polo field just southwest of the Smith property from the same lateral that also provides water to the Smith/Bloomfield ditch (see system diagram).

The following rights have nominal shapes in the SWSE QQ in ArcMap but do not actually overlap with this right:

37-8441B, owned by Griffin Ranch HOA is appurtenant to 2.0 acres in the far northeast of SWSE.

37-298B was not decreed in the SRBA and does not appear to have been renumbered is likely a historical irrigation right.

Conditions on the permit appear to have been satisfied as well. The pond capacity is 1.2 acre feet with a surface area of 0.23 acres. Mitigation requirements have been met with less than 7.1 acres irrigated on the property. As mentioned above, there is an impermeable liner under the pond.

According to Lori Sewell, property manager for the subdivision, ground water is delivered to the Smith property to satisfy his ground water rights after District 45 delivery of his surface water rights ceases due to priority cuts. There is a ditch from the well that carries water over to the lateral that provides water to the Smith/Bloomfield ditch.

Recommend licensing 0.05 cfs for Diversion to Storage and 3.5 AFA for Aesthetic Storage and Fire Protection Storage.

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

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
AESTHETIC STORAGE	01/01 to 12/31		3.50 AF
DIVERSION TO STORAGE	04/15 to 10/31	0.050 CFS	3.50 AF
FIRE PROTECTION STORAGE	01/01 to 12/31		3.50 AF
	<u>Totals:</u>	0.050 CFS	3.50 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 Bill Mott Date 6-21-2013
Reviewer Chris Mott Date 7/1/13



Figure 1: The Pond



Figure 2: Dry Hydrant



Figure 3: Ditch flowing South from Pond to Bloomfield Property



Figure 4: Headgate on Lateral to Ditch



Figure 5: Bellevue Farms Well, Ground Water Point of Diversion

System Diagram 37-20743

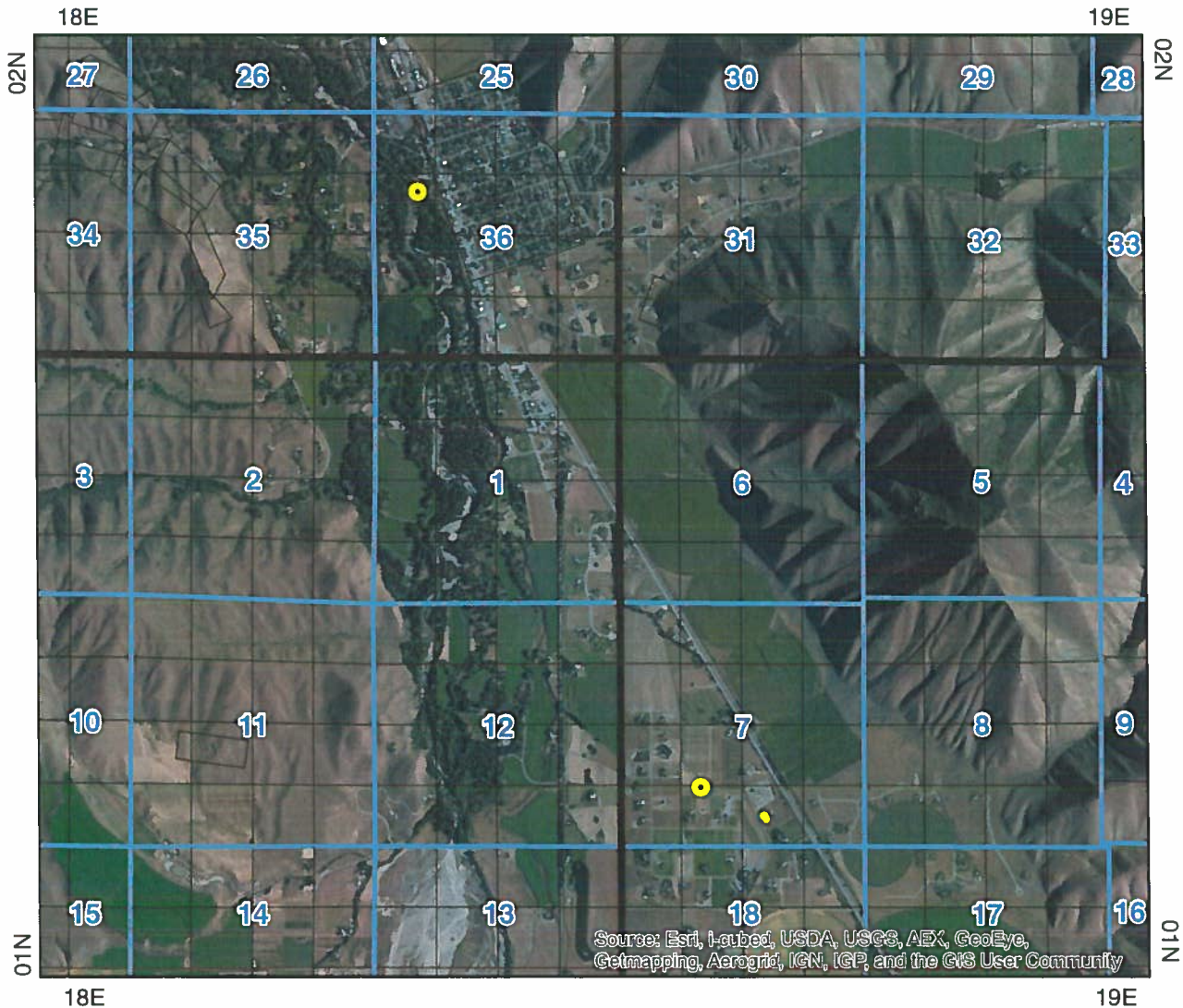


State of Idaho
Department of Water Resources

Attachment To Water Right License

37-20743

This map depicts the AESTHETIC STORAGE place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



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

0 0.45 0.9 1.8 Miles

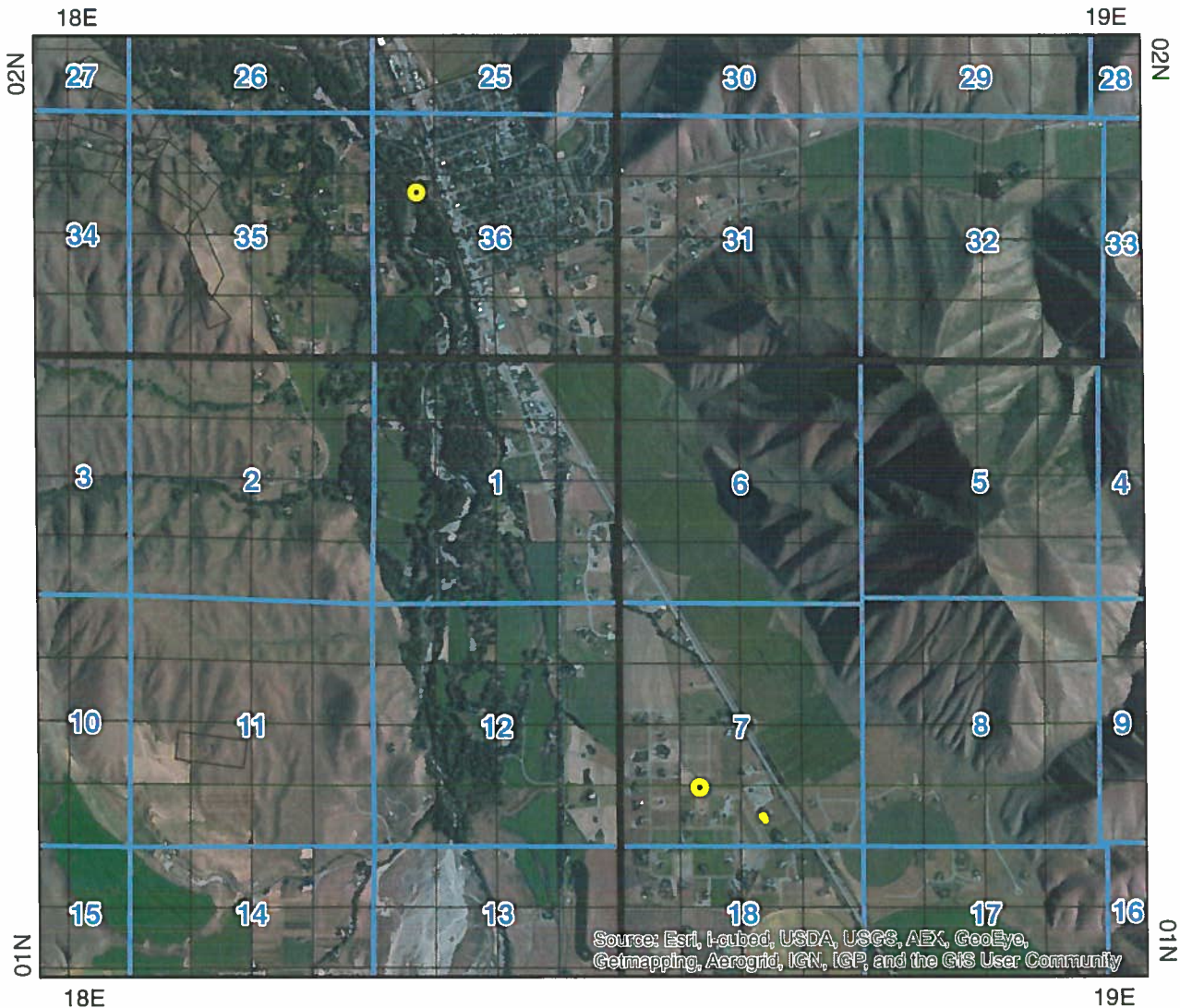


State of Idaho
Department of Water Resources

Attachment To Water Right License

37-20743

This map depicts the FIRE PROTECTION STORAGE place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



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

0 0.45 0.9 1.8 Miles



