

MEMO

To: 96-9074 C & R Holdings

From: Sandy Hemenway

Date: 12/28/2010

REF: Licensing Review Memo

An Application for Permit was received 5/8/2001 for Irrigation, Stockwater, and Fire Protection. The Permit to Appropriate Water was approved on 8/8/2001, for Irrigation (0.04 cfs), Stockwater (0.04 cfs), and Fire Protection (0.04 cfs). Proof was to be submitted on or before 8/1/2002. Proof of Beneficial Use was received by C & R Holdings on 8/1/2002, with a \$50 fee paid (receipt # C063685).

Tax Lot **ownership** information for the POU, that was updated 4/15/2010, shows C & R Holdings, Bruce Cheattle and Mike Garside Trustee (same as shown on the Deed of Appointment, which showed the Trust Organization). Tax Lot information for the POD does not show any ownership (it's like an easement on both sides of Sand Creek).

There are no **Overlaps** for either the POU or the POD.

The **field exam** was conducted on 5/28/2003. A 5-inch PVC pipe is placed in the creek to house the 1/2 Hp Franklin submersible pump at Sand Creek/POD. There is a 3/4-inch discharge to 3/4-inch PVC going to the homesite with 1 frost free hydrant hooked up to a 5/8-inch hose and portable sprinklers for irrigation. There is 1 frost free hydrant for stockwater with a hose connected to it (1 head cattle, and 1 head sheep). The yard/garden area is 110 ft X 200 Ft = 0.5 acre irrigation. This same system is utilized for fire protection.

Administrative Area Results show two **Season of Use** for the area, but the POU falls under 4/1 - 10/31. The headgate requirement is 3, and consumptive use is 2. This POU does not fall under any water master.

Fire Protection falls under Idaho Code 42-201(3): Notwithstanding the provisions of subsection (2) of this section, water may be used at any time, with or without a water right, (a) to extinguish an existing fire on private or public lands, structures, or equipment, or to prevent an existing fire from spreading to private or public lands, structures, or equipment endangered by an existing fire.

RECOMMENDATIONS:

Conditions

X02 is removed at licensing, since the volume limits the number of head; X15 and X16 are used since they are requested by Fish and Game, effective 1991. There is a note in the file dated 8/6/2001, in regards to concerns Fish and Game had, which brought about the condition for having mesh screening. Condition R66 was changed to X31 since the POU is less than 1 acre, to avoid confusion with the "per acre" reference in the usual condition. Conditions 077 remains when licensing.

Volume

Irrigation: $V_{ir} = 0.5 \text{ acre} \times 3 = 1.5 \text{ af}$; $V_{dr} = 0.01 \times 213 \times 1.9835 = 4.2 \text{ af}$; $V = 1.5 \text{ af}$

Stockwater: 1 cow = $(1 \times 12 \text{ gpd} \times 365)/325,850 = 0.013 \text{ af}$; 1 sheep = $(1 \times 2 \text{ gpd} \times 365)/325,850 = 0.0022 \text{ af}$; minimum allowed is 0.1 af.

Fire protection: No volume is listed (no annual volume). See Idaho Code 42-201(3a).

Total volume recommended: 1.6 af

CFS

(1) Using a pipe conversion formula: $Q = 5 (3.1416) \times R^2$

$Q = 5 (3.2426) \times 0.03125^2 = 0.015$

(2) During the field exam, a 5 gallon measurement was conducted. 5 gallons in 60 seconds = 5 gpm.

$(5 \times 0.133681)/60 = 0.01 \text{ cfs}$.

Irrigation: 0.03 cfs/acre, allow 0.01 cfs (capacity of system)

Stockwater: 0 - 23 = 0.02 cfs, only 2 head (1 cow, 1 sheep) allow 0.01cfs.

Fire protection: allow 0.01 cfs (Idaho Code 42-201 states water can be used for fire protection with or without a water right).

Total Diversion Rate Recommend: 0.01 cfs

