

MEMORANDUM

TO: Water Right File 63-34765

FROM: Daniel Nelson – Analyst 3

DATE: May 1, 2020

SUBJECT: Licensing Review of Water Right 63-34765

The field exam for this right was performed by Certified Water Right Examiner Terry Scanlan of SPF Water Engineering. Mr. Scanlan recommended that this permit be licensed for 0.01 cfs and 1.2 af. Mr. Scanlan then submitted additional information stating the volume should be 1.6 af.

Field Report Review:

The diversion rate and volume for this permit are well done. This permit has a condition that limits the use to 13,000 gallons per day, so there shouldn't be a volume on the license for this permit. The volume limit is in the 13,000 gallon per day condition.

Mr. Scanlan mentioned in his field report that the water from the spring filled a pond. After speaking with administrative staff, I contact Mr. Scanlan to inform him if he could show that no more than 13,000 gallons of water was diverted per day from the spring and the pond, then we could include the pond as part of the domestic use. Mr. Scanlan supplied supplemental information that confirms that not more than 9,160 gallons of water is diverted in any given day. I performed a worst case scenario by using the highest diversion rates from the spring, the pressure system diversion rate, irrigation rate diverted from the pond, and evaporation losses, and came up with a maximum possible daily diversion of 11,764 gallons (2,160 gal spring diversion + 2,000 gal pressure system + 7,000 gal use from pond + 586 gal evaporation losses = 11,746 gal), which is well below the 13,000 gallon per day limitation. I used the peak possible irrigation use from the pond of 7,000 gallons per day that Mr. Scanlan used in his analysis. It is highly unlikely that this amount of water will ever be diverted in a single day, but I wanted to ensure that the maximum possible use was addressed.

Per Mr. Scanlan's analysis, I recommend that this permit be licensed for domestic use for 0.01 cfs. The condition limiting the use to 13,000 gallons per day should be carried forward to licensing. The maximum capacity of the spring is limited to a diversion rate of 2,160 gallons per day, so most of the diversion volume calculated above is taken from the pond for irrigation during the summer months. There are no overlapping water rights in this 40 acre tract, so there shouldn't be any overlap issues.

Conditions:

Conditions X01, 071, and 187 should be carried forward to licensing. Condition 220 should be added also. Conditions X01 and 220 should be altered to state the following:

Domestic use is for 1 home and pond.

The pond established by this domestic right shall not exceed a total capacity of 0.5 acre-feet or a total surface area of 0.1 acre(s).