

Weaver, Mathew

From: Charles G. Brockway [charles.g.brockway@brockwayeng.com]
Sent: Thursday, April 01, 2010 8:59 AM
To: Weaver, Mathew
Cc: Peppersack, Jeff; Spackman, Gary
Subject: RE: Fish Creek Reservoir
Attachments: MTF040110.doc

Mat,

Sounds good. Attached is a memo that I should have prepared shortly after the last meeting, but didn't. It basically recaps the consensus we reached on the irrigation recharge and seepage issues. This memo is based on my notes from the meeting, so if you recall something different, let me know.

Please forward me the results of the METRIC analysis once you are satisfied with it.

Thanks,
Chuck

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All information, calculations, maps, drawings, or other documents transmitted via e-mail are preliminary unless explicitly stated in the e-mail text or in the documents themselves.

From: Weaver, Mathew [mailto:Mathew.Weaver@idwr.idaho.gov]
Sent: Wednesday, March 31, 2010 4:46 PM
To: Charles G. Brockway
Subject: Fish Creek Reservoir

Chuck,

Bill has finished working up METRIC values for the Fish Creek Reservoir Company shape file you provided for the years 2000, 2002, and 2006. At the time Jeff had asked me to look into one to two items regarding Bill's work and I have not had a chance to get back on to that project since then. My work schedule will clear up considerably following April 7th. I will make it a high priority to review Bill's work add some supplemental information that Jeff and I had talked about several weeks ago and share our findings with you at that time. Hopefully by mid-April.

Thanks,

Mat Weaver, PE

Staff Engineer

Idaho Department of Water Resources

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Brockway Engineering
MEMO TO FILE

PROJECT: 052-05-2005

SUBJECT: Fish Creek aquifer recharge plan – meeting summary
DATE: April 1, 2010
FROM: C. G. Brockway

A meeting was held on January 7, 2010 at the IDWR state office regarding the proposed aquifer recharge plan for the Fish Creek Reservoir Company. Present were Gary Spackman, Jeff Peppersack, Mat Weaver, Charles G. Brockway, Doug Surerus, Lawrence Kimball, and Jerry Cennarusa.

The primary outstanding issues pertained to the magnitude of historic irrigation recharge (which cannot be credited toward recharge), and the calculation of seepage in Fish Creek beyond that which would normally have occurred.

Consensus was reached as follows:

1. Relative to the seepage issue, use historic data to determine the average or median day that the “first water” is in the creek, either due to spill or manual releases of storage. Beyond this day, seepage cannot be credited. Prior to this day, seepage is assumed to be “new” recharge and can be credited.
2. Bill Kramber will do a METRIC analysis for 2000, 2002, and 2006 to estimate actual ET for the main irrigated area, which will then be compared to actual deliveries to estimate irrigation recharge. Use average historic recharge as a constant factor that cannot be credited.
3. Evaporation reduction due to decrease in the reservoir surface area can be treated as a constant value.

The ultimate goal is to arrive at a simple yet scientifically sound procedure that can be used by Fish Creek each year to adjust the gross recharge volume measured at the weir just downstream of the Hot Springs Ditch diversion. Brockway will revise the proposed methodology once the above analyses have been done.