

Edl, Michele

From: mreed@ifpower.org
Sent: Friday, May 07, 2010 1:30 PM
To: Edl, Michele
Cc: JFlowers@ifpower.org
Subject: Re: data request
Attachments: Gem Lake diversion map.bmp

No problem Michele. The plant you depicted is our lower plant. Your site is located just downstream of it and is just upstream of our Gem State plant. The readings you will need would be the tailrace discharge elevation at Lower and the Headwater elevation at Gem State. I will get you the data on Monday. But, to get you going, the nominal tail discharge elevation at Lower is 4655.9 ft and the nominal head level at Gem State is 4655.1 ft (minuscule drop in elevation). Additionally, we maintain head level at Gemstate at 4655.1 ft (+ or - 0.2 ft) year round. In other words, river elevation at your site does not change too much at all and is probably around 4655.7 ft all the time. Have a good weekend,

Mark Reed
Generation and Operations Superintendent
Idaho Falls Power
140 S. Capitol
Idaho Falls, Idaho 83402
(208) 612-8234
Fax (208) 612-8435

From: "Edl, Michele" <Michele.Edl@idwr.idaho.gov>
To: <mreed@ifpower.org>
Date: 05/07/2010 01:01 PM
Subject: data request

Mr. Reed,
It was a pleasure to connect with you this morning. Thank you for your willingness to provide me some data.

I am interested in Snake River water data from below one of the city's power plants. The diversion I am investigating is to the Gem Lake Harbor. The field examiner's report states the diversion culvert headgate is located within the influence of an upstream dam. Based on our mapping tools, I believe that the hydro plant he meant is located at 1550-1560 ish W Sunnyside Rd.

I have attach a screen shot of the area, for your reference. The yellow colored area is the place-of-use for the water right I am reviewing.

I have collected USGS stage and discharge data from the Eagle Rock and the Shelley gauges. However, I believe that the location of the culvert's headgate puts it in the tailwater pool of the plant. So the Snake River flow information may not provide a true indication of water availability. I believe that the tailwater elevation or stage data from this area could help me determine if the culvert was submerged or flowing half full, or above the river level and therefore not diverting water at all.

I don't know at what interval you capture data so I'm not sure what to ask for. I would appreciate sub-daily data for two days: 6/21/2007 and 9/4/2009 as a reality check on the field examiners measurements. But after that confirmation, I will need a years worth of data; probably 2009 if that was a better year for water. If you do not archive sub-daily data I will gladly accept what you have.

Don't hesitate to contact me with questions.

Sincerely,



Michele Edl
Associate Engineer
Water Rights Section
Idaho Department of Water Resources
322 East Front St
Boise ID 83720
208-287-4946