

Hoselton, Anna

From: Tim Flynn [tflynn@aspectconsulting.com]
Sent: Friday, August 12, 2005 10:47 AM
To: Hoselton, Anna
Subject: FW: City of Goldendale - Response Actions for Dingmon Emergency Drought Permit

Anna:

The City of Goldendale's effort to obtain an emergency drought permit for use of the Dingmon well as an emergency supply is focused on preventing an undue hardship to the community at large and is in the public interest. It is also the City's objective to effectively manage the groundwater resource and minimize impacts to surrounding groundwater users. To meet this objective the City will implement the following response actions in the event that the potential impairment of a surrounding user is identified:

- 1) The City will respond to a claimant regarding concerns that pumping of the Dingmon well is impacting use of their well and impairing their source of water supply. The City will assist Ecology in assessing the nature and extent to which such pumping interference may be occurring and whether it is impairing their ability to obtain adequate supply. It is anticipated that the assessment would involve collection of water level data during both pumping and non-pumping periods;
- 2) The City will identify appropriate response measures, in coordination with Ecology, to avoid or mitigate impairing existing groundwater users resulting from pumping of the Dingmon well under the emergency permit. Such measures may include altering the pumping schedule and/or rate and duration to the extent possible to reduce pumping interference effects, or assessing other options.
- 3) The City will cooperate with Ecology to minimize impacts to surrounding users.

Tim Flynn, LHG, CGWP
Aspect Consulting, LLC
179 Madrone Lane N.
Bainbridge Island, WA 98110
direct dial: 206-780-7730
cell: 206-276-5540
fax: 206-780-9438
tflynn@aspectconsulting.com

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From: Tim Flynn [tflynn@aspectconsulting.com]
Sent: Friday, August 12, 2005 7:33 AM
To: Hoselton, Anna; Kirk, John T.
Cc: dgriffin@ci.goldendale.wa.us; Steve J. Germiot
Subject: City of Goldendale - Supporting Information for the Drought Permit (Dingmon Well)

Anna:

attached is a revised distance drawdown analysis based on a 12-hour pumping assumption, which is more consistent (and still conservative) with how the City of Goldendale anticipates using the Dingmon well. The analysis I attached yesterday assumed 90 days of continuous pumping, which is not consistent with how the well will be used, and therefore overestimates the predicted drawdown effects. As my previous e-mail message (see below) indicated, the Dingmon well will be used on an as-needed basis to maintain the reservoirs during peak periods. This would likely require running the well for short periods several times per day at peak times rather than on a longer term continuous basis. The attached calculation uses the same analysis that I forwarded yesterday, with an adjustment of the pumping duration to 12 hours (0.5 days) versus 90 days. The spreadsheet analysis allows easy adjustment. Based on a 0.5 day pumping assumption (to simulate what actually will likely be two 4 hour pumping periods), the predicted drawdown at 0.5 miles (2,500 feet) is 5 feet, which should not impair any surrounding well users, even given the reduced pumping levels due to the drought. The on - off anticipated pumping schedule will allow for recovery over the period of operation as an emergency source.

Please let me know if you have any questions.

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Bainbridge Island, WA 98110
direct dial: 206-780-7730
cell: 206-276-5540
fax: 206-780-9438
tflynn@aspectconsulting.com

From: Tim Flynn
Sent: Thursday, August 11, 2005 2:42 PM
To: Anna Hoselton (AHOS461@ECY.WA.GOV); John Kirk
Cc: David S. Griffin (dgriffin@ci.goldendale.wa.us); Mark Sigfrinius (msigfrinius@ci.goldendale.wa.us); Steve Germiot
Subject: City of Goldendale - Supporting Information for the Drought Permit (Dingmon Well)

Anna:

attached is a well location map showing the Dingmon well (28A1) proposed for use as an emergency source by the City of Goldendale, as well as all surrounding wells in section 28 and adjoining sections. The wells are located at the center of the quarter- quarter section when available, and so are not exact. Also attached is an EXCEL spreadsheet which summarizes information on these wells with regard to location, depth, depth to water/gw elevation, and specific capacity. We also reviewed Ecology's well log data base to see if there are any new wells in the area. These are summarized in the attached file (dingmon_additional wells since 1999). Jim Riley is the current owner of the Dingmon wells (28A1, 28A2, and 28A3) and has agreed to allow the City use of the well and all necessary easements. At least one of the other "Dingmon" wells has been abandoned.

The Dingmon well (28A1) is 531 feet deep and is completed in the Wanapum Basalts. It has a

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