

From: [Baca, Joaquin](#)
To: [Radke, Bill](#)
Cc: [Fernandez, Juliette](#); [Reagan, Steve](#); [McIntyre, Julie](#); [Harden, Tasha](#); [Harden, Victor S](#)
Subject: Re: border wall wells info
Date: Monday, November 4, 2019 11:07:15 AM
Importance: High

Bill,

I will start reworking the numbers, although this is a different situation than was previously modeled. Previously we were working with drawdown from 1 well using multiple numbers provided by CBP. While we did our best to provide accurate numbers for multiple scenarios, it was difficult to get a perfect answer given the limitations of the information provided to us. That said, the numbers we modeled were not outside the bounds of what would be considered reasonable.

For the new model, per Mr. Gar, we now need to show cumulative effects from multiple wells, while taking into account that not all wells will be running simultaneously. While that makes sense from a logistical standpoint, Mr Gar has not provided us a schedule of which of the 5 wells will be pumping and when. I have several questions, but will limit it to 3. While he states we should not assume all wells will be running at the same time, will two or more wells be running simultaneously? Will only 1 well per day be used? What is the location of the Quarry Well and the Rocker Ranch Well?

I realize you may not be able to provide these answers, I think for now just the location of the two other wells would help so I can determine if I need to factor them into the model.

Thank you

On Mon, Nov 4, 2019 at 6:25 AM Radke, Bill <bill_radke@fws.gov> wrote:

All; I am forwarding you the email and information from Tasha Harden which provides GPS and/or mapped locations of the wells that DHS contractors are/will be withdrawing water from in support of their border infrastructure construction. From west to east, the wells depicted on the map are: "Milepost 9 Well" within the Roosevelt Easement about 4.8 miles west of SBNWR; "Glenn Well" on private property about 1.6 miles west of SBNWR; "Mile Marker 18 Well" on state trust land north of the Roosevelt Easement about 450 feet east of SBNWR.

These are the three wells that will need to be used in our analysis of the impacts to SBNWR from water withdrawal amounting to a DHS/USACE identified volume of at least 102,000 gallons per day (200,000 gallons per day peak use, 150,000 gallons per day average use for a 5-day work week) over a 322 day time period. In their email to the FWS dated November 1 2019, DHS/USACE only provided water withdrawal information pertinent to the Glenn Well and the Mile Marker 18 Well, and has not divulged any information pertinent to the Milepost 9 Well. They have not identified whether the 322 day project period identifies actual work days or the contract period. So we are still left guessing what the cumulative impacts will be from this project. The water use numbers they provided are:

200,000 gallons per day peak use.

750,000 gallons per week (about 150,000 gallons per day average use for a five day work week).

Total projected withdrawal from the Glenn Well is 14,000,000 gallons (72,000 gallons per day maximum usage).

Total projected withdrawal from the Mile Marker 18 Well is 5,000,000 gallons (30,000 gallons per day maximum use).

While I cannot speak to the accuracy of these latest estimates, this is the most recent information that has been made available to FWS.

----- Forwarded message -----

From: **Harden, Tasha** <tasha_harden@fws.gov>
Date: Fri, Nov 1, 2019 at 1:05 PM
Subject: border wall wells info
To: Bill Radke <bill_radke@fws.gov>

Attached are a couple pics showing all 3 wells in relation to the refuge and one showing how close the eastern well is to our boundary.

The GPS coords area;
Eastern well: 31.334364 109.228989
Western well: 31.334142 109.366205

let me know if you'd like anything else on this for now.

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Tasha Harden
Assistant Manager

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