

From: [Kundargi, Darrell](#)
To: [Walker, Cassandra M](#)
Cc: [Baca, Joaquin](#); [Harden, Tasha](#); [Mcdaniel, Monty K](#)
Subject: Re: Weekly well data
Date: Monday, January 13, 2020 9:46:35 AM
Importance: High

Hi All,

Thanks for the data, Cass. Below I have some thoughts on the check measurements, a response to Tasha, and a question for Monty.

Regarding the check measurements for flow, I think it would be best if we used this <https://www.gpimeters.com/Calibration-Contained-5-gallon-Prodview.html> because it's 1) much more accurate, 2) 3rd party and 3) calibrated to 0.01 inches.

When using this calibration bucket you don't have to try and hit the 5 gallon mark exactly, you just have to get the water level up to the calibrated section, then shut off the valve at the same time you hit stop on your stopwatch. Record the fill time and the fill level and we calculate gpm from that.

My question is: will this bucket work for your site conditions? My concern is that the opening for the bucket isn't large enough for the flow coming out of your pipe. Let me know if you think this will work and I'll order one.

Regarding your email last week, Tasha. We don't have an intern we can detail at the Refuge. He's still a student and classes started this week. I tried to convince him to miss the first month of classes but he didn't think that would be good for his GPA.

Monty, the drawing you gave me of the Hay Hollow Well pipe info was perfect. When you get back from training can you please get me that info for Twin, Bunting, and Mitigation as soon as your schedule allows? This is instrumental to calculate how much flow we lose as artesian pressure drops.

Best,

Darrell

\On Mon, Jan 13, 2020 at 8:01 AM Walker, Cassandra <cassandra_walker@fws.gov> wrote:
Here is last weeks well data....

Pressure and Depth for:
Hay Hollow Ponds(HHP), Hay Hollow Upstream (HHU), and Hay Hollow Downstream (HHD)

Pressure data for:
Hay Hollow, Mitigation, Twin, and Bunting

Cass

--

Cassandra Walker, PhD
US Fish and Wildlife Service
Refuge Biologist
San Bernardino and Leslie Canyon NWR

PO Box 3509
7628 N Hwy 191
Douglas AZ 85608
Office: 520-364-2104x105
Cell: 520-368-6010
Fax: 520-364-2130

--

Darrell Kundargi
Hydrologist
Branch of Water Resources
U.S. Fish and Wildlife Service
500 Gold Street SW
Albuquerque, NM 87102

Ph: (505) 248-6430
Cell: (505) 362-3075
[www.facebook.com/USFWS Water Resources](http://www.facebook.com/USFWSWaterResources)