

From: [Radke, Bill](#)
To: [Harden, Tasha](#)
Cc: [Mcdaniel, Monty K](#); [Humberto Rodriguez](#); [Walker, Cassondra M](#)
Subject: Re: well pump estimates
Date: Monday, May 4, 2020 8:52:05 AM

Tasha; Thank you again for gathering, organizing, and interpreting this submersible pump installation information for me and others. The conference call/webinar seemed positive on Friday. There is a good chance that USACE/DHS/Contractors will ultimately install the necessary equipment on the refuge, but I have no time frame. It turns out that the government contract for this border infrastructure construction has a clause that states there must be no "negative effects to water resources" due to project implementation. I would like you and Cassondra to prioritize a list of the wells that will need pumps installed, based upon immediate threat mitigation (probably Hackberry Well as #1). There is also a good chance that contractors will not be involved in the gabion repair work, and will instead just fund the repairs (as originally requested by FWS). I will keep you updated as I learn more. Thank you, Bill

From: Harden, Tasha <Tasha_Harden@fws.gov>
Sent: Friday, May 1, 2020 8:58 AM
To: Radke, Bill <bill_radke@fws.gov>
Subject: Re: well pump estimates

This document is both quotes combined (five 100 gpm pump systems and two 60 gpm pump systems for a total of \$140,500.00). These quotes cover all costs to end up with essentially the same set up we have right now where it is solely solar powered, just with larger solar arrays and pumps, with the option to "plug" it into 120V (generator/grid power/OR potentially a separate solar array/battery pack system).

I have reached out a few times now asking for updates on the "separate solar array battery pack system" to provide night time pumping- but have heard nothing back yet...

Tasha Harden
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From: Radke, Bill <bill_radke@fws.gov>
Sent: Friday, May 1, 2020 8:49 AM
To: Harden, Tasha <Tasha_Harden@fws.gov>
Subject: Re: well pump estimates

I'm trying to work off my phone which makes this hard to decipher. Help me understand; is this \$21K quote just for the pump itself. Does it include adequate solar panels, batteries or whatever to keep it pumping day and night. It seems I also remember Curetin pricing generators or something in place of solar panels. Is this somehow included as an option.

William R. Radke; Project Leader
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On May 1, 2020, at 8:16 AM, Harden, Tasha <Tasha_Harden@fws.gov> wrote:

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