

**From:** [Walker, Cassandra M](#)  
**To:** [Harden, Tasha](#)  
**Subject:** Re: FYI my "notes" for today's water call  
**Date:** Thursday, May 7, 2020 10:35:29 AM  
**Attachments:** [Outlook-smhaaahv.png](#)  
[water call TH updates 5-7-20 CassEdit.docx](#)  
[Outlook-0fvehnqm.png](#)

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## **POND Water Level CONDITIONS:**

### **February 2020 9 and 9 ponds Updates**

#### ***Struggling Post Glenn Well Pumping:***

##### **Pond May 2020 Update**

Brasher	pump on - level ok- still no outflow
Cobble	pump on - supplemented with RC pipeline and doing good with outflow
Magoffin	pump on - supplemented with RC pipeline and doing good with outflow
Ben New	pump on - dropping level- adjusting HB well flow since RC pipeline running... slowly
rising	
PhD1	level good with pump on
PhD2	level good with pump on
North	pond berms repaired- pump on- level good with outflow
Mesquite	Burned and grubbed- level good (outflow NA)
Twin2	grubbed- level good with outflow

#### ***Maintaining Post Glenn Well Pumping:***

##### **Pond May 2020 Update**

Bath House	level good
Oasis	level good
Robertson	level dropping due to diverting water via pipeline to Magoffin and
Cobble ponds	
House	level dropping as <i>expected</i> with summer conditions
Minckley N	level good
Minckley S	level good
Twin	level good
Hay Hollow N	level good
Hay Hollow S	level good

\*RC pipeline running water 4/30/20

CASS update on gpm outflow

#### **10 Feb:**

Brasher – 5.10 gal/min  
Cobble – 5.04 gal/min  
Magoffin – 10.38 gal/min  
Ben New – 6.34 gal/min

Hackberry Outflow: 7.45 gal/min

#### **18 Feb:**

Solar pump turned on – little noticeable increase in pond inflow from meters, suspect well is “recycling”

Pond levels rebound until 20 Mar, Magoffin and Ben New begin to decrease

#### **27 Apr:**

Check valve installed on well

**29 Apr:**

Brasher – 15.38 gal/min

Cobble – 19.29 gal/min

Magoffin – 11.13 gal/min

Ben New – 11.46 gal/min

**30 Apr:**

Water diverted from West Border Well to Cobble and Magoffin ponds (approx. 30 gal/min based on flow meter)

**01 May:**

Cobble and Magoffin pond levels up and outflow established

**05 May:**

Hackberry Outflow: 35.64 gal/min

Shiner captured at Ben New (PL = 1.28, up from 1.18 on 01 May after adjusting well inflow) – New priority to remove vegetation to reduce transpiration

**Pond Rehab pre monsoon: 11**

Ben New	Grub Cattail from pond (utilize chem at gauge)	Reduce transpiration, Struggling pond with shiner population
Magoffin	Grub Cattail from pond (utilize chem at gauge)	Reduce transpiration, pond with shiner population
Cobble	Grub Cattail from pond (utilize chem at gauge)	Reduce transpiration, pond with shiner population
Brasher	Grub Cattail from pond (utilize chem at gauge)	Reduce transpiration
Phd 1	Grub sedge from pond margins, remove dead cattail (utilize chem at gauge)	Reduce transpiration, increase monitoring access
Phd 2	Grub sedge from pond margins, remove dead cattail (utilize chem at gauge)	Reduce transpiration, increase monitoring access
Bath House	Grub sedge from pond margins, remove dead cattail (utilize chem at gauge)	Reduce transpiration, increase monitoring access
Oasis	Remove sedge from pond margins (utilize chemical)	Reduce transpiration, increase monitoring access
S Minkley	Grub Cattail from pond (utilize chem at gauge)	Reduce transpiration, Keep cattail from spreading to cover majority of pond
S Hay Hollow	Grub Cattail from pond (utilize chem at gauge)	Reduce transpiration, Keep cattail from spreading to cover majority of pond
Twin 1	Remove Cattail from pond (utilize chemical)	
Urquides	Add clay from HH pile	Strengthen pond, be ready to refill

\* Cattail spring (march) spraying tests results/low % mix/backpack sprayer = one pond good effect (all was reached) one pond not so good (couldn't reach all from land)

Will increase mix % and will utilize kayak and higher powered atv sprayer.

**Monitoring Equipment 5/7/20 Status:**

Sites ready for "box install": middle, bunting, Twin, hackberry, mitigation

Sites needing solar and plumbing/meter: hay hollow (next week)

CASS: update on the "brains" status

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**From:** Harden, Tasha <Tasha\_Harden@fws.gov>  
**Sent:** Thursday, May 7, 2020 9:33 AM  
**To:** Walker, Cassandra M <cassandra\_walker@fws.gov>  
**Subject:** Re: FYI my "notes" for todays water call

can you resend- it wont let me open it anymore....

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**From:** Walker, Cassandra M <cassandra\_walker@fws.gov>

**Sent:** Thursday, May 7, 2020 7:20 AM

**To:** Harden, Tasha <Tasha\_Harden@fws.gov>

**Subject:** Re: FYI my "notes" for todays water call

I added the Hackberry narrative for you so you know what I'll be talking about...

Cassandra Walker, PhD

US Fish and Wildlife Service

Refuge Biologist

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**From:** Harden, Tasha <Tasha\_Harden@fws.gov>

**Sent:** Thursday, May 7, 2020 7:02 AM

**To:** Walker, Cassandra M <cassandra\_walker@fws.gov>; Radke, Bill <bill\_radke@fws.gov>

**Subject:** FYI my "notes" for todays water call

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