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To: [Radke, Bill](#)
Subject: San Bernardino NWR Periodic Hydrologic Monitoring Update 02/ 25 /2020
Date: Tuesday, February 25, 2020 11:38:29 AM
Attachments: [SBNWR Pond Well Update 17Feb-21Feb20.docx](#)

During the week of February 21, 2020:

Monitoring wells checked and data recorded, pressure logs pulled and sent to water resources, pond inlet flows recorded in survey123 and sent to water resources, pond levels recorded in survey123. Protocol and new survey123 still in development

- 18 Feb – Solar turned on and pumps started for:
 - Bunting well (North pond), Hackberry well (Brasher, Cobble, Magoffin, and Ben New ponds), and Hay Hollow well (North and South Hay Hollow ponds)
 - 18-19 Feb – Mesquite grubbed to remove remaining cattail root masses
 - 18 Feb – Bucket flow test for Hay Hollow well, Bunting well, Twin well, Mitigation well
 - 21 Feb - \$4819.20 spent refuge funds to standardize flow meters on each inflow pipe- for consistent continual monitoring of each pond on SBNWR
 - 18-21 Feb - M.McDaniel worked with water resources to prepare for new system (sending measurements for meter orders, constructing poles, plumbing)
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- Hay hollow water has been on since 01/23/20 pump on since 02/18/20
 - pond level ok with some outflow
 - Bunting water has been on since 01/17/20 pump on since 02/18/20
 - pond level ok but no outflow... unknown "drain looking pipe" found, wet spots on SE end of pond sides, investigations ongoing
 - Twin water has been on since 01/17/20 pump on since 02/18/20
 - pond level good with outflow
 - Twin2 water has been on since 02/12/20
 - pond level ok but no outflow yet
 - Hackberry well water has been consistently on to ponds pump on since 02/18/20
 - pond levels ok but no outflow on all ponds

Weekly biology report attached

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