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Subject: San Bernardino NWR Periodic Hydrologic Monitoring Update 02/ 18 /2020
Date: Tuesday, February 18, 2020 10:56:36 AM
Attachments: [SBNWR Pond Well Update 10Feb-14Feb20.docx](#)

During the week of February 14, 2020:

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

- 09 Feb - water resource staff arrived
- 10 Feb 20 – Hay Hollow transducer was submerged into well and started new log to collect at 1700
- 10 Feb 20 – Water resources visited SBNWR: outflow of Hackberry ponds measured as 7.45 gal/min and all input flows measured (26.86 gal/min) and a deficit of 19.41 gal/min lost
- 11 Feb- WR work with refuge maintenance at each of the 6 monitoring sites to establish plan for equipment installation
- 12 Feb - Twin2 fill pipe re-plumbed and boards inserted to begin refilling pond.
- 13 Feb 20 – Mitigation transducer removed from 1130 – 1140 for maintenance
- 13 Feb - RO folks visit refuge; Decision made to attempt to return to normal operations and maintain normal pond levels and outflow amounts. Pumps to be used, and improved upon if needed, to obtain and maintain normal water levels for critical aquatic habitat.
- 15 Feb - Mesquite pond burned and ready for inspection prior to turning water back on

- Hay hollow water has been on since 01/23/20
 - pond level ok with some outflow
- Bunting water has been on since 01/17/20
 - pond level low and no outflow on
- Twin water has been on since 01/17/20
 - pond level good with outflow
- Hackberry well water has been consistently on to ponds
 - pond levels ok but no outflow on ponds 2-4 and outflow decreasing on pond 1

Weekly Biology Report Attached

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