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To: [Radke, Bill](#)
Subject: San Bernardino NWR Periodic Hydrologic Monitoring Update 03/ 24 /2020
Date: Tuesday, March 24, 2020 11:59:26 AM
Attachments: [SBNWR Pond Well Update 15-20Mar20.docx](#)

During the week of March 20, 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 still in development* New survey123 utilized for flows, no issues.*

- 16 Mar 20 – Bucket flow test for Hay Hollow well, Bunting well, Twin well, Mitigation well
 - 17-18 Mar 20 - Second consultation with D&M Well Services, pumps tested, results provided to management, discussions between staff on what is needed, D&M working on providing estimates for costs on what refuge specified.
 - 17 Mar 20 - Bucket flow test at Hay Hollow well, Twin well, and Bunting well
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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 with outflow
 - 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 good with outflow
 - Hackberry well water has been consistently on to ponds pump on since 02/18/20
 - pond levels ok **no real outflow**

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