# San Francisco Bay Secretive Marsh Bird Survey Form

**Observer** (last, first)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Study Area(s)** 1 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
**Add’l observers**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Transect** \_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Visit** \_\_\_\_ **Date** (mm-dd-yyyy) \_\_\_\_-\_\_\_\_-\_\_\_\_\_\_

**Protocol** [ ] 2-sp North American Marsh Bird Protocol OR [ ] Other (please describe) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
***Weather\**** **Wind** \_\_\_\_ mph/kph/Beaufort Code **Temp** \_\_\_\_°F/°C **Sky code** \_\_\_\_ **Noise** \_\_\_\_dbA/dbC/Noise code

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| Map Ref.  Code | Point | Start Time  (24-hr)  -OR-  Species  Code | Bearing (°) | Distance (m) | Study Area Detected | Min 1 - passive | Min 2 - passive | Min 3 - passive | Min 4 - passive | Min 5 – passive | Min 6 – BLRA broadcast | Min 7 – RIRA broadcast | Min 8 - passive | Min 9 - passive | Min 10 - passive | Playback Halted? (Y/N) | Outside Study Area? (Y/N) | Outside Time? (Y/N) | Duplicate Bird?\* (Y/N) | Comment Number |
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**Comments/Predators and predator events:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
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| **Study Areas 1,2,3:** See Protocol pg. 31-32 for a list of additional accepted Study Areas. Detections from these study areas are entered as OutsideSite=”N.” Detections in other areas not listed are OutsideSite=”Y.” | | | | | | |
| **\*Duplicate Bird:** **Y** if bird is counted as unique from another point; **N** if bird is counted as unique to the point. | | | | | | |
| **Weather Codes:** | | | | | | |
| ***Wind speed Beaufort codes:***  **0** Calm, smoke rises vertically, water surface smooth and mirror-like (<1 mph) **1** Light air: Smoke indicates direction, scaly ripples on water with no foam crests (1-3 mph) **2** Light breeze: Wind felt on face, leaves rustle, small wavelets, crests glassy, no waves breaking (4-7 mph) **3** Gentle breeze: Leaves, twigs in constant motion, large wavelets, crests begin to break, scattered whitecaps (8-12 mph) **4** Moderate breeze: Small branches moving, raises dust, small waves 1-4 ft, numerous whitecaps (13-18 mph)  **Stop survey when winds average >10 mph or gusts reach 15 mph** | | | | | | |
| ***Sky codes:*** **0** clear or a few clouds **1** partly cloudy or variable sky **2** cloudy or overcast **4** fog or smoke **5** drizzle **6** rain **8** showers | | | | | | |
| ***Noise codes:***  **0** No noise (<40 dB) **1** Faint noise (40-45 dB) **2** Moderate noise (probably can't hear some birds beyond 100m, 45-50 dB) **3** Loud noise (probably can't hear some birds beyond 50m, 50-60 dB) **4** Intense noise (probably can't hear some birds beyond 25m, >60 dB) | | | | | | |
| **All Species V** visual  **Ridgway’s Rail (RIRA): C**= clatter **K**= kek **B**= kek-burr **KH**= kek-hurrah **SK**= squawk **P**= purr **CH**= churr | **Black Rail (BLRA):**  **KKD**= ki-ki-doo **GR**= grrr **CHT**= churt **TCH** = tch (laugh)  **PE**=peep | **Virginia Rail (VIRA):**  **G**= grunt **T** = tick-it **KI**= kicker **KIU**= kiu/squawk **KK**= kikik | **Sora (SORA):**  **WH**= whinny **PW**= per-weep **KEE**= keep | **American Bittern (AMBI):**  **PL**= pump-er-lunk **CP**= chu-peep **KO**= kok | **Least Bittern (LEBI):**  **COO**= coo **KAK**= kak **ERT**= ert | **Yellow Rail (YERA):**  **CC**= click-click **CA**= cackle **WHZ**= wheeze |