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| **Sonde Deployment/Retrieval Field Sheet** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Last Revision 15 Nov 2018 | | | | | | | | | | | | | | |
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| **Station name/ID:** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | |  | | | |  | | | | | | | | | | | | | | |
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| **Sonde #:** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | **Model:** | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | |  | | | |  | | | | | | | | | | | | | | |
| **Staff at deployment:** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | |  | | | |  | | | | | | | | | | | | | | |
| **Assessment unit:** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | |  | | | |  | | | | | | | | | | | | | | |
| **Water Quality Standards segment:** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **20.6.4.** | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | **ALU:** | | | | | | | | | | | | | | | | |  | | | |  | | | | | | | | | | | | | | |
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| **Location description:** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | |  | | | |  | | | | | | | | | | | | | | |
| **Lat/Long:** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | **GPS Accuracy: ±** | | | | | | | | | | | | | | | | | | |
| **DO Field Cal:** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | mm Hg | | | | | | | | | | | | | | | | | | | | | | | | mg/L | | | | | | | | | | | | | | | | |  | | | | oC | | | | | | | | | | | | | | |
| **Date/time deployed:** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | |  | | | |  | | | | | | | | | | | | | | |
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| **Staff at retrieval:** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | |  | | | |  | | | | | | | | | | | | | | |
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| **Condition at time of retrieval:** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **□ Submerged □ Buried □ Exposed □** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **Other (Please explain)** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| **Anchor** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  Rebar  T-post   Cable/float   Other (specify) | | | | | | | | | | | | | | | | | | | | | |  2  6  3  4  8 | | | | | | | | | | | | | | | | | | | | | | | |  Not removed | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | |
| Additional comments: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | |  | | | |  | | | | | | | | | | | | | | |
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| **Archive file name:** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | |  | | | |  | | | | | | | | | | | | | | |
| Cross section sketch: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | **Plan view sketch:** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | |  | | | | | | | | | | | | | | |
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| Write good directions, draw a good site map, and note triangulation distances. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | |  | | | | | | | | | | | | | | |
| **Take photos from 2 angles (have someone point to or stand next to the sonde):** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | |
| PHOTO 1 Description | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | |  | | | |  | | | | | | | | | | | | | | |
| PHOTO 2 Description | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | |  | | | |  | | | | | | | | | | | | | | |
| **SONDE CALIBRATION WORKSHEET** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Rev. 15 Nov 2018 | | | | | | | | | | | | | | | | | | |
| Sonde ID: | | | | | | | |  | | | | | | | | | | Date/Time: | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | Technician: | | | | | | | | | | | | | | | | | | | | |  | | | | | | | |  | | | | | | | | | | |
| Project: | | | | | | | |  | | | | | | | | | |  | | | | | | | | | | Battery Voltage or %: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| **Dissolved Oxygen pre-deployment** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Barometric Pressure: mmHg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **Pass Criterion: ±5% Optical** | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | Initial Reading | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | Calibrated Reading | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | Temperature (oC) | | | | | | | | | | | | | | | |  | | | | Pass/ Fail | | | | | | | | | |
|  | | | % | | | | | | | | | | | mg/L | | | | | | | | | | | | | | | |  | | | | % | | | | | | | | | | | | | | | | | | | | | | mg/L | | | | | | | | | | | | | | | | | | |  | | | | | | | | | |  | | | | | | | | | | | | | | | |  | | | | | | | |  | | | | | |
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|  | | DO Charge\* (RP): | | | | | | | | | | | | | |  | | | | | | | | | | | | (Range: 50 +/- 25) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | DO Gain\*: \_\_\_\_\_\_\_\_\_\_\_\_ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | (Range: 0.7 to 1.4) | | | | | | | | | | | | | | | | | | | | |  | |
| ODO Gain\*: | | | | | | | | | | | | | | | |  | | | | | | | | | | | | (Range: 0.25 to 1.25) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | (Not Local Gain!!!) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | |
| **\***Record AFTER probe calibration. If not displayed, look in: Sonde Menu --> Advanced --> Calibration Constants | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| **Specific Conductance** | | | | | | | | | | | | | | | | | | | | | | | | | | | | Calibration Constant: \_\_\_\_\_\_\_\_\_\_\_ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | **Pass Criterion: ± 5% ±1 µS/cm** | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | Standard Value (µS/cm) | | | | | | | | | | | | | | | |  | | | Standard Lot # | | | | | | | | | | | | | | | | |  | | | | Initial Reading (µS/cm) | | | | | | | | | | | | | | | | | | | | | | |  | | | | Calibrated Reading (µS/cm) | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | Temp. (oC) | | | | | | | | | | |  | | | Pass/ Fail | | |
|  | | 0 (Hydrolab) | | | | | | | | | | | | | | | |  | | | Air | | | | | | | | | | | | | | | | |  | | | |  | | | | | | | | | | | | | | | | | | | | | | |  | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | |  | | |  | | | | | | | | | | |  | | |  | | |
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| **pH** | | | | | |  | | | | | | | | | | | |  | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | **Pass Criterion: +/- 0.2 su** | | | | | | | | | | | | | | | | | | | | | |
| Value (su) | | | | |  | | | | Buffer Lot # | | | | | | | | | | |  | | | Initial Reading (su) | | | | | | | | | | | | | | | | | |  | | | Calibrated Reading (su) | | | | | | | | | | | | |  | | | | | mV \* | | | | | | | | | | | |  | | | Temp. (oC) | | | | | | | | | | | | | | | |  | | Range (mV) | | | | | | | | | Pass/Fail | | | | | | | | | | |
| 7 | | | | |  | | | |  | | | | | | | | | | |  | | |  | | | | | | | | | | | | | | | | | |  | | |  | | | | | | | | | | | | |  | | | | |  | | | | | | | | | | | |  | | |  | | | | | | | | | | | | | | | |  | | (0 +/- 50) | | | | | | | | |  | | | | | | | | | | |
| 4 | | | | |  | | | |  | | | | | | | | | | |  | | |  | | | | | | | | | | | | | | | | | |  | | |  | | | | | | | | | | | | |  | | | | |  | | | | | | | | | | | |  | | |  | | | | | | | | | | | | | | | |  | | (+180+/-50) | | | | | | | | |  | | | | | | | | | | |
| 10 | | | | |  | | | |  | | | | | | | | | | |  | | |  | | | | | | | | | | | | | | | | | |  | | |  | | | | | | | | | | | | |  | | | | |  | | | | | | | | | | | |  | | |  | | | | | | | | | | | | | | | |  | | ( -180+/-50) | | | | | | | | |  | | | | | | | | | | |
| **\*Note:** Difference in mV between pH4 and pH 7, and pH 7 and pH 10 should be approximately 165 to 180 mV(ex. 165 mV - (-10) mV = 175 mv). If not, probe should be reconditioned and recalibrated. mV1(\_\_\_\_\_\_\_\_) – mV2(\_\_\_\_\_\_\_\_) = \_\_\_\_\_\_\_\_\_ mV | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Turbidity** | | | | | | | | | | |  | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **Pass Criteria: see chart** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Value (NTU) | | |  | | | Standard Lot # | | | | | | | | | | | |  | | | Initial Reading (NTU) | | | | | | | | | | | | | | | | | |  | | | Calibrated Reading (NTU) | | | | | | | | | | | | | | | | |  | | | | **Note:** YSI 6920V2 & 600OMS, Calibrate 0 NTU with probe guard in clear container | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Pass/Fail | | | | | | |
| 0 | | |  | | | DI | | | | | | | | | | | |  | | |  | | | | | | | | | | | | | | | | |  | | | |  | | | | | | | | | | | | | | | | |  | | | |  | | | | | | |
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| **Calibration Verification** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Date/Time: | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | |  | | | | | Technician: | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | |  | | | |
| **Dissolved Oxygen at Retrieval** | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | **Temperature (oC)** | | | | | | | | | | | | | | | | | | | | | | | |  | | | | **Pressure (mmHg)** | | | | | | |  | | | | | **DO Gain** | | | | | | | | | | | | | | | | | |  | | | | | | **QA Criteria** | | | | | | | | | | | | | | | | |  | | | **P/F or Qual.** | | | |
| % | | | | | | | | | | | | | | mg/L | | | | | | | | | | |  | |  | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | |  | | | | | | |  | | | | |  | | | | | | | | | | | | | | | | | |  | | | | | | Pass: ± 5% Interpolation: ± 30% | | | | | | | | | | | | | | | | |  | | |  | | | |
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| **Specific Cond. (µS/cm)** | | | | | | | | | | | | | |  | **Standard Lot #** | | | | | | | | | | | |  | | | | | | | **Reading (µS/cm)** | | | | | | | | | | | | | | | | | |  | | | | **Temp. (oC)** | | | | | | | | | | | | | | |  | | | | **Pass** | | | | | | | | | | | | | | | | | | |  | | | **Interpolation Range** | | | | | | | |  | | | | | | | | **P/F or Qual.** | | | |
| 0 (Hydrolab) | | | | | | | | | | | | | |  | Air | | | | | | | | | | | |  | | | | | | |  | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | |  | | | | ±1 | | | | | | | | | | | | | | | | | | |  | | | ± 5 | | | | | | | |  | | | | | | | |  | | | |
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| **pH Value (su)** | | | | | | | | | | | |  | | | **Buffer Lot #** | | | | | | | | | | | |  | | | | | | | **Reading (su)** | | | | | | | | | | | | | | | |  | | | | **Temp. (oC)** | | | | | | | | | | | | | | | | | |  | | | **mV** | | | | | | | | |  | | | | | **QA Criteria** | | | | | | | | | | | | | | | | | | | | |  | | | **P/F or Qual.** | | |
|  | | | | | | | | | | | |  | | |  | | | | | | | | | | | |  | | | | | | |  | | | | | | | | | | | | | | | |  | | | |  | | | | | | | | | | | | | | | | | |  | | |  | | | | | | | | |  | | | | | Pass: ± 0.2  Interpolation: ± 1.0 | | | | | | | | | | | | | | | | | | | | |  | | |  | | |
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| **Turbidity Value (NTU)** | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | **Standard Lot #** | | | | | | | | | | | | | | | | | |  | | | | **Reading (NTU)** | | | | | | | | | | | | | | | | |  | | | | **Pass** | | | | | | | | | | | | | | | | | | |  | | | **Interpolation Range** | | | | | | | | |  | | | | | | | **P/F or Qual.** | | | |
| 0 | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | DI | | | | | | | | | | | | | | | | | |  | | | |  | | | | | | | | | | | | | | | | |  | | | | ± 1 | | | | | | | | | | | | | | | | | | | ± 10 | | | | | | | |  | | | | | | | |  | | | |
| 126 YSI/100 In-Situ/100 Hydrolab | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | |  | | | | | | | | | | | | | | | | | |  | | | |  | | | | | | | | | | | | | | | | |  | | | | ± 5 | | | | | | | | | | | | | | | | | | | ± 30 | | | | | | | |  | | | | | | | |  | | | |
| 1000 | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | |  | | | | | | | | | | | | | | | | | |  | | | |  | | | | | | | | | | | | | | | | |  | | | | ± 50 | | | | | | | | | | | | | | | | | | | ± 300 | | | | | | | |  | | | | | | | |  | | | |
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