**Cullowhee Clean Air**

**(WheeCAIR)**

**Field Deployment Sheet**

**Research Team & Sensor Information**

Deployment Date: Start Time:

Name(s):

Sensor Initials: Sensor Build Date & Version: 2019-10-09, v1.0

**Site Information**

Coordinates: Coordinate System:

Reference Datum:

Specific site description (provide enough detail for someone else to find your sensor):

Other notes (list things about the site that you think may influence your sensor’s data):

**Sensor Deployment Instructions**

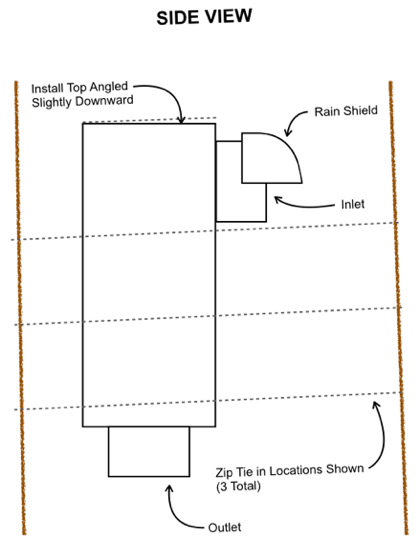
* You may secure your sensor to trees or fence posts around the Purchase area, including along the Cataloochee divide trail.
* Your sensor **CANNOT** be visible from a trail or walkway.
* You may **NOT** attach your sensor to any historic structures, artifacts, etc.
* Your sensor **CANNOT** interfere with the operation of the NCDEQ Air Quality instruments or the weather station at the site.
* At least two sensors should be installed in a location near the air quality shed/weather station.
* If possible, you should co-locate your sensor with another for comparison.
* Install your sensor with the partially covered opening (“rear opening”) at the top and the full opening at the bottom (“bottom opening”); this ensures rain won’t get into the sensors.
* Similarly, install your sensor angled *slightly* toward the rear opening to that rain is less likely to drip into the sensor.
* If possible, find a location that won’t be disturbed by wildlife.
* Complete the Sensor Installation Checklist and Field Deployment Sheet (attached).

**Sensor Installation Checklist**

|  |  |  |
| --- | --- | --- |
|  | 1 | SD card installed |
|  | 2 | All wires/sensors connected correctly (check for broken wires) |
|  | 3 | PM sensor positioned correctly |
|  | 4 | Batteries connected (black to -, red to +) |
|  | 5 | Black reset button on PCB pressed |
|  | 6 | Boot sequence correct: 10 s pause, 5 short blinks (orange light), 5 s pause, 2 long blinks (orange light)\*\*\* |
|  | 7 | Case lid installed **tightly** (black seal should compress to keep out water). |
|  | 8 | Sensor securely fastened to tree. |
|  | 9 | Sensor field deployment sheet (on back) filled in completely, including location. |
|  | 10 | Photo of installed sensor/site sent to [dfischer@wcu.edu](mailto:dfischer@wcu.edu). |

*\*\*\*Any other blink sequence indicates an error and you MUST troubleshoot and fix the issue before continuing!!*

**Sensor Installation Specification**

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