# Cullowhee Clean Air (WheeCAIR) Field Deployment Sheet

## Research Team & Sensor Information

Donlay mont Data	Start Time:
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	t you think may influence your sensor's data):

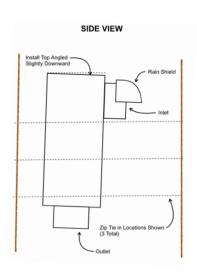
#### **Sensor Deployment Instructions**

- 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.

### Sensor Installation Specification



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