

	Environmental Analysis Teaching and Research Laboratory	Date: 4/24/2019	Number: 29 v0.1
	Standard Operating Procedure	Title: DJI Matrice 100 UAV	
	Approved By: TBD	Revision Date: November 5, 2019	

## 1. Scope and Application

1.1 The scope of this SOP is train researchers...

1.2 The applications of this SOP are for...

## 2. Summary of Method

2.1 This SOP does this...

## Contents

1	Scope and Application	1
2	Summary of Method	1
3	Acknowledgements	3
4	Definitions	3
5	Biases and Interferences	3
6	Health and Safety	3
	Safety and Personnel Protective Equipment . . . . .	3
7	Personnel & Training Responsibilities	3
8	Required Materials and Apparati	3
9	Reagents and Standards	3
10	Estimated Time	3
11	Sample Collection, Preservation, and Storage	3
12	Preflight Checks	3
13	Procedure	4
14	Data Analysis and Calculations	4

15 QC/QA Criteria	4
16 Trouble Shooting	4
17 References	4

### **3. Acknowledgements**

### **4. Definitions**

4.1 Term1: is...

### **5. Biases and Interferences**

5.1 Biases and interferences can come from...

### **6. Health and Safety**

6.1 Describe the risk...

### **Safety and Personnel Protective Equipment**

### **7. Personnel & Training Responsibilities**

7.1 Researchers training is required before this the procedures in this method can be used...

7.2 Researchers using this SOP should be trained for the following SOPs:

- SOP02 Field Safety

### **8. Required Materials and Apparati**

8.1 DJI Matrice 100 (Serial Number M02DF 19020136)

8.2 Mavic II Pro (L1P) 163DFBS 0010DLYV

### **9. Reagents and Standards**

### **10. Estimated Time**

10.1 This procedure requires XX minutes...

### **11. Sample Collection, Preservation, and Storage**

### **12. Preflight Checks**

12.1 Update firmware

**12.2** Plan flight carefully. Double check flight plan on site to make sure you have the clearances necessary.

**12.3** Set Return to Home Elevation at 150'. Check to ensure no trees or powerlines can be struck at this elevation.

**12.4** Use UAV Forcast App to check weather and flying conditions. Note: the app will not identify electrical interferences, so pay attention to these parameters.

**12.5** Calibrate Drone

## **13. Procedure**

**13.1** Prepare ...

**13.2**

## **14. Data Analysis and Calculations**

## **15. QC/QA Criteria**

## **16. Trouble Shooting**

## **17. References**

**17.1** APHA, AWWA. WEF. (2012) Standard Methods for examination of water and wastewater. 22nd American Public Health Association (Eds.). Washington. 1360 pp. (2014).