

	Environmental Analysis Teaching and Research Laboratory	Date: 05/22/2019	Number: 00
	Standard Operating Procedure	Title: EA Field & Lab Inventory	
	Approved By: Marc Los Huertos	Revision Date: June 25, 2021	

## 1. Scope and Application

1.1 This is an inventory of instruments and equipment in the EA Program

## 2. Summary of Method

2.1 This SOP does this...

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### 3. Acknowledgements

Student employees that will be helping... where all equipment needs to be given an ID# and inventoried – Summer of 2020.

### 4. Inventory

#### Field Equipment

Item	ID#	Quantity	Location
Ford Explorer #1		1	Garage EA Slot
Ford Explorer #2		1	Garage EA Slot
Cooler #1		1	SGM 132
Cooler #2		1	SGM 132
TopCon AT-G4 Survey Scope w/Tripod and Stadia		3	SGM 131
Meter Tape (10m)		2	SGM 131
Meter Tape (25m)		1	SGM 131
Meter Tape (100m)		1	SGM 131
Infiltrometer		3	SGM 131
VanDorn Bottle (Horizontal)		1	SGM 133
VanDorn Bottle (Vertical)		1	SGM 133
LiCor Underwater PAR Sensor		1	SGM 133
Walkie Talkies		3	SGM 131
Honda Field Generator		1	SGM 132
Ryobi Field Generator		1	SGM 132

#### Raspberry Pi & Accessories

Item	ID#	Quantity	Location
RPI Zero+	NA	16	SGM
RPI 3+	NA	2	SGM XX
RPI 4+	NA	2	SGM XX
PMS5004 PM Sensor	NA	16	SGM XX

#### Remote Sensing

Item	ID#	Quantity	Location
DJI Mavic 3 Pro		1	SGM XX
DJI Mavic Batteries		3	SGM XX
DJI Matrice 100		1	SGM XX
DJI Matrice 100 Batteries		6	SGM XX

**Laboratory Equipment**

Item	ID#	Quantity	Location
MilliQ Elix Water Purification System	SN41972616	1	SGM 134
ESCO Laminar Flow Cabinet		1	SGM 133
Drying Oven		1	SGM 134
Thermo Fisher Sorvall ST 8R Centrifuge		1	SGM 133
Thermo Fisher Legend Micro 21 Centrifuge		1	SGM 133
Fisher Scientific Clinical Centrifuge accuSpin 8C		1	SGM 133
Thermo Scientific mySPIN 12 Micro Centrifuges		1	SGM 133
Thermo Fisher -80°C Freezer		1	SGM 133
Thermo Fisher -30° C Freezer		1	SGM 134
Thermo Fisher 20° C Double Wide Refrigerator		1	SGM 134
Fisher Scientific Isotemp Tube	SN GFBF60022010	1	SGM 133
HACH DRB 200		1	SGM 134
Thermo Scientific Cimatec Hot Plate		5	134
Lab Armored Dry “bath”		1	SGM 134
Fisher Scientific Sonicator		1	SGM 134
Fisher Scientific Maxidry Vacuum Pump		4	SGM 134
Hamilton Beach Commercial Mixer		1	SGM 134
Fisher Scientific Vortex Mixer		3	SGM 134
HACH Digital Reactor Block		1	SGM 133

**Laboratory Glassware, Seives, etc**

Item	ID#	Quantity	Location
Mortars/Pestles		8	SGM 133
1L Soil Texture Cylinders		8	SGM 133
various cylinders		5	SGM 134
1000 mL Ehrlenmeyer Flasks		10	SGM 134
250 mL Ehrlenmeyer Flasks		50	SGM 134
250 mL side arm Ehrlenmeyer Flasks		6	SGM 134
400 mL Beaker		30	SGM 134
250 mL Beaker		30	SGM 134
100 mL Beaker		30	SGM 134
Soil Tins		36	SGM 134
SS Test Sieve, 8" (ASTM-E11)– No. 10 (2mm)		3	SGM 131
SS Test Sieve, 8" (ASTM-E11)– No. 35 (500 $\mu$ m)		1	SGM 131
SS Test Sieve, 8" (ASTM-E11)– No. 60 (250 $\mu$ m)		1	SGM 131
SS Test Sieve, 8" (ASTM-E11)– No. 140 (106 $\mu$ m)		3	SGM 131
SS Test Sieve, 8" (ASTM-E11)– No. 200 (75 $\mu$ m)		7	SGM 131
SS Test Sieve, 8" (ASTM-E11)– No. 270 (53 $\mu$ m)		1	SGM 131
SS Test Sieve, 8" Receiver w/recessed ring		3	SGM 131
SS Test Sieve, 8" Top		3	SGM 131
Brass Test Sieve, 8" (ASTM-E11)– No. 230 (63 $\mu$ m)		1	SGM 131
Brass Test Sieve, 8" Receiver		1	SGM 131
(Aluminum?) Soil Sieve, 7.75"– No. 5 (4mm)		1	SGM 131
(Aluminum?) Soil Sieve, 7.75"– No. 10 (2mm)		1	SGM 131
(Aluminum?) Soil Sieve, 7.75"– No. 35 (500 $\mu$ m)		1	SGM 131
(Aluminum?) Soil Sieve, 7.75"– No. 60 (250 $\mu$ m)		1	SGM 131
(Aluminum?) Soil Sieve, 7.75"– No. 120 (125 $\mu$ m)		1	SGM 131
(Aluminum?) Soil Sieve, 7.75"– No. 230 (63 $\mu$ m)		1	SGM 131
(Aluminum?) Soil Sieve, 7.75"– Receiver		1	SGM 131
1000 $\mu$ L Pipetteman		1	SGM 133
250 $\mu$ L Pipetteman		1	SGM 133
100 $\mu$ L Pipetteman		1	SGM 133
Millipore Vacuum/Filter Flasks		4	SGM 134
Funnels		20	SGM 134

**Digital Media Resources**

Item	ID#	Quantity	Location
Cannon Camcorder w/Tripods		4	SGM 105
Stream Deck Mini		1	SGM 106
Blackmagic ATEM Mini Pro		1	SGM 106
Blackmagic HDR 12G Video		1	SGM 106

## **Analytical Instruments**

1. Turner Designs Fluorometer
2. Mettler Toledo XPE205 Delta Range Microbalance
3. Mettler Toledo Balance (3x)
4. High Capacity Portable Scale (24 x 24 inch)
5. Digital Calipers (7x)
6. 7 Dissecting Scopes w/lights
7. 1 Dissecting Scope w/lights and Camera
8. Revolve Microscope
9. Fisher Scientific pH Meter
10. ICP-MS
11. IRGA -Isotope Ratio Gas Analyzer
12. Lab Computer #1
13. Lab Computer #2
14. Alkalinity Test Kit (3x)
15. GIS Lab 16 computers
16. Eureka WQ Sonde (temp/DO/TDS/pH) (2x)
17. Water Flow Pygmy Meter
18. Water Flow Type II Meter
19. Stop Watches (10x)
20. Hydrometer (5x)
21. HACH DR900 (3x)
22. HACH DR3900