

## **ASH SAMPLING INSTRUCTIONS FROM 2018 HALEMA'UMA'U PLUME**

Thank you for considering assisting the USGS with the analysis of ash being deposited by the current activity at the Halema'uma'u crater. The analysis of these samples will assist the USGS in determining the potential risk to human health, agriculture and the environment.

### **WHAT YOU NEED:**

- Plastic zip lock bags (heavy-duty, freezer quality works best - but any zip lock will do)
- Permanent marking pen to write on plastic bag (a sharpie or similar)
- Clean spatula, putty knife, plastic spoon, paint brush or anything to scoop or brush the ash

### **COLLECTION WITH PREPARATION TIME PRIOR TO ASHFALL EVENT:**

1. Select a large collection area since many ash-falls are relatively light (thin). The larger the better.
2. Label your sample bag with a unique sample number. Example: year, personal initials, and a number (Jason Moniz would label 18JM-1, 18JM-2, etc.). You can label however you like as long as no two samples have the same name (see attached datasheet).
3. Place a plastic tarp or other plastic sheet out in an open area to collect ash.
4. Record accurate time and date that ashfall began and ended, if known.
5. If possible, measure thickness of ash with ruler, or cut out and use ruler on datasheet.
6. Empty ash from plastic tarp into a container and then into a sample bag.
7. Record sample data on the datasheet. Seal and double bag the sample and return to UH Hilo at the address on datasheet (or arrange for drop off- see info on datasheet).

### **COLLECTION AFTER ASHFALL EVENT:**

1. Label your sample bag with a unique sample number. Example: year, personal initials, and a number (Jason Moniz would label 18JM-1, 18JM-2, etc.). You can label however you like as long as no two samples have the same name (see attached datasheet).
2. Record accurate time and date that ashfall began and ended, if known.
3. Select a smooth, flat surface that is covered with ash and scrap or brush this ash into your sample bag. It is good to collect from a hard surface (car hood, step, window sill, etc.) rather than the grass or ground.
4. If possible, measure thickness of ash with ruler, or cut out and use ruler on datasheet.
5. Record sample data on the datasheet (see attached). Seal and double bag the sample and return to UH Hilo at the address on datasheet (or arrange for drop off- see info on datasheet).