**Boulder County Hazardous Materials Team**

Air Monitoring

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| Guideline Number | 3002 |
| Approved By | Advisory Committee |
| Date | Draft 2-17-18, 4-24-18 |

**Scope:** This guideline applies to all members of the Boulder County Hazardous Materials Team (BCHMT)

**Purpose:** The purpose of this guideline is to establish standard procedures for Air Monitoring of an incident involving Hazardous Materials.

**Guideline:**

* Request a spot weather forecast
* **Weather considerations**:
* Wind speed and direction
* Temperature
* Barometric pressure
* Humidity
* Chance of precipitation
* Utilizing all available metering equipment, monitor for:
* Radiation
* Corrosivity
* Flammable Atmosphere
* Oxygen Levels
* Toxicity

**Procedure**

* Establish clear and concise hot, warm, and cold zones using zone tape based on hazards present, weather conditions, surrounding occupancies and the Initial Recon and perimeter meter findings. Initial zone should be 75 feet for solid, 150 feet for liquid, and 300 feet for gas. Establish Safe Refuge area when necessary.
* **Perimeter/Zone Monitoring:** Monitor perimeter of incident and establish Zones using Area Rae’s, Multi-Rae’s, and any other specific meters deemed necessary and capable of detecting the above five Hazard considerations. This will be coordinated with Research and Site Access utilizing members assigned to either function.
* **Zone Determination:** Utilize the monitors to determine the Hot Zone. Any abnormal readings on the monitors will mark the beginning of the Hot Zone. If no abnormal readings are present, then the Zones will be determined by the physical state of the chemical or chemicals involved and the recommendations from the ERG or NIOSH guide.

* **Initial Recon**: Monitoring equipment should include a Ludlum, Dosimeter, or Identifinder; wet and dry Ph paper, wet and dry Flourine paper; a four gas meter (LEL, H2S and/or HCN, O2, CO); a PID; a ChemPro ; and any specific meters (sensors) if the hazard atmosphere is known.

 **Additional Entries:**  Monitoring equipment should be specialized in accordance with findings from Initial Recon by either deleting specific meters (sensors) or adding specific meters (sensors).

* Utilize appropriate research materials to determine action levels of any abnormal readings found during entries.
* Refer to the General Response SOG for appropriate notifications, turn scene over to the appropriate Authorities once hazard has been mitigated.