

**WEST COUNTY COMMUNITY TASK FORCE  
MEETING MINUTES  
December 15, 1998**

**ITEM: Review Handouts**

**ACTION:** Distributed handouts; updated Action Agenda, dated November 30, 1998. Key Elements of Air Quality Monitoring, Modeling, and Its Role in the Site Selection Process, by Yasmin Yorker, US EPA-Region 4. Memorandum of Understanding that was approved by the state.

**ITEM: Key Elements for Air Quality Monitoring**

**ACTION:** Arnita outlined the “key elements” and lead the discussion of Defining Objectives, which are part of the Key Elements for Air Quality Monitoring. Cam gave a presentation on the rest of the key elements. Issues discussed:

- Defining objectives
- Selecting compounds
- Selecting duration and frequency of monitoring
- Selecting, sampling, and analytical methods
- Determining meteorological requirements
- Designing the network
- Selecting contractors for sampling and analysis

**Arnita:**

Defining monitoring objectives:

1. Why are we monitoring?
2. What questions do we want to answer with the monitoring program?
3. What are the intended uses of the monitoring data?

**Cam:**

Selecting compounds:

1. Air toxics of interest (see handout)
2. Types of air toxics to study
3. Selecting air toxics sources

Selecting duration and frequency of monitoring:

1. Duration
2. Frequencies
3. Resource requirements
4. Quality assurance/quality control

Selecting sampling and analytical methods

1. Grab samples (canisters) possibly 8
2. 24-hour sample
3. One day in 12-day schedule
4. Duration of two year – approximately

## 5. Episode and random monitoring

### Determining meteorological requirements

1. Meteorological conditions play an important part in explaining daily maximum toxics concentration variances.
2. Meteorological survey requirements
  - a. Duration of time
  - b. Wind speed
  - c. Wind direction
  - d. Temperature
  - e. Historical data to estimate seasonal effects
  - f. Depth
  - g. Precipitation
  - h. Atmosphere pressure
  - i. Time
  - j. Humidity

### Designing the network

1. Number and location of monitoring stations
  - a. Receiving characteristics
  - b. Environmental characteristics
  - c. Number and location of sources

### Selecting contractors for sampling and analysis

1. University of Louisville
2. Jefferson County Air Pollution Control Board
3. US EPA

### **ITEM: Modeling and Its Role in the Site Selection Process**

**ACTION:** Yasmin Yorker from the US EPA gave a presentation on modeling. Issues discussed:

- Why model?
  - a. Locations of maximum ambient concentrations
  - b. Locations of maximum frequency of impact
- Examine toxic release inventory data for:
  - a. Potential pollutants of concern
  - b. Potential facilities of interest
- How do you find maximum ambient concentrations?
  - a. ISTCST3 model
    - Source information
    - Terrain information
    - Meteorological information
- How do you find maximum frequency of impact?

- a. Frequency plus maximum impact
- Inputs for model:
  - a. Facility data
  - b. Point & area source data
  - c. Receptor network
  - d. Building downwash
- What do you do with the results?
  - a. Look at maximum ambient concentrations
  - b. Identify maximum frequency of impact
  - c. Examine geographical locations
  - d. Use US EPA siting criteria

**ITEM: Time Frame**

**ACTION:** The implementation time line for the monitors is between March and April for the first six to eight monitors, and November for the other six monitors coming from Chattanooga.

**ITEM: Location of Monitors**

**ACTION:** The Task Force decided that the canisters needed to be located in the same neighborhoods that were discussed in the Action Agenda. Linda and Pat will get LOJIC maps of the areas. A sign up sheet was passed around for anyone interested in being on the committee to assess the data to determine location of the canisters in the selected neighborhoods.

**Site Decision Team**

Norman Robinson  
Linda Weathers  
LaLetta Jenkins  
Robert Hackett  
Bobby Hickey  
Peggy Bolton  
Pat Germany  
James George  
Phyllis Fitzgerald  
Tom Herman

**ITEM: Agenda for January**

**ACTION:** The Task Force wants Industry reps to come to the meeting on January 19, 1999, and discuss issues regarding their companies. It was requested that Zeon be one of the companies invited to speak. Anyone with suggestions is to contact Arnita via fax, at 852-4610.

Meeting adjourned at 8:32 p.m.