

4.1.5.3 Record sampling data as shown in Figure 2 at least once for each point sampled and enter extra readings when changes in stack or sampling train conditions require extra adjustments of the sampling flow rate. Monitor v_p and VAC during the run. If the velocity changes by 10 percent or if the VAC reading changes by 2.5 in. Hg, both from the previous readings, recalculate v_H and readjust the sampling flow rate. If the VAC reaches 5 in. Hg, replace the filter as needed. The PM catch for the run shall be the sum of all individual filter catches plus the nozzle and filter holder catch.

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4.1.5.4 Traverse the stack according to the pattern and schedule from the preliminary determinations. Avoid contact with the stack wall when sampling near the wall and when inserting or removing the probe to prevent contamination or loss of sample.

4.1.5.5 Determine the moisture content using Method 4 and the molecular weight using Method 3. Estimates may be used if sufficient validation is given.

4.1.5.6 When the run is completed, let the probe assembly cool to touch, if necessary. Replace the nozzle cover and recheck all pipe and tube fittings for tightness. If any connections (pipe, tubing, or clamp) can be loosened by hand, void the run and retest.

4.2 Sample Recovery.

4.2.1 Remove the probe assembly from the sample train. Drain any condensed moisture from the connecting hose.

4.2.2 Move the probe assembly to the cleanup area that is clean and protected from the wind and weather. Save (in a labeled sample container) about 200 ml of the cleanup solvent for blank analysis.

4.2.3 Carefully inspect the probe assembly and filter holder before recovery. Note any unusual conditions. Thoroughly wipe off all PM from the outside of the nozzle and filter holder to prevent sample contamination. Remove the probe cap and transfer any loose nozzle catch into **Container No. 2**. Remove the filter holder cover and recover the sample as follows:

4.2.3.1 Container No. 1. Carefully loosen the filter clamp and remove the filter from the support base. Remove the clamp and place the filter in its original sample container in an upright position to hold the catch. Inspect the filter base and filter clamp for adherence of any filter material and remove with a pair of clean tweezers. Carefully place any recovered filter material inside the thimble filter. Seal the container. Maintain this filter container in an upright position during transfer and storage to prevent loss of filter catch.

4.2.3.2 Container No. 2. Quantitatively recover the remaining loose catch from the nozzle and filter holder cover in the following manner. Brush the nozzle with a clean Nylon brush and rinse with acetone. Brush the inside of the filter holder cover and rinse with acetone. Alternately repeat the

4. Shigehara, R.T., Smith, W.S., and Todd, W.F. A Method of Interpreting Stack Sampling Data, Paper Presented at the 63rd Annual Meeting of the Air Pollution Association. St. Louis, MO. June 1970.
5. All dedicated source samplers who have risked life and limb and long term good health developing methods and equipment in harsh environments.