



STAINED GLASS ASSOCIATION OF AMERICA

SGAA Air Monitoring Program

General Information

Determining the Number of Samples

1. Employee Air Sampling

The OSHA Lead Standards require that you document each employee in each work task at least once a year. In addition, you must sample each new task or work process that is introduced into the work place. The important part is to document the task, the secondary part is to sample every employee. It is recommended that you sample for task exposure twice a year and that you each employee is tested at least once.

To choose what to sample, you need to identify each job or task in the studio and out in the field. Then decide in what order you will sample these tasks and which employees will perform the tasks. Sampling can be done over the year or all at one time.

Examples of in studio tasks are: painting, soldering, glazing, cementing, etc.

Examples of field tasks are: removal of windows, installation of windows, repair of window frame, etc.

2. Area Air Sampling

At least once a year, you need to sample overall air in each area of the studio. It is best to do this sampling when there is work going on in the area. This determines how much lead dust gets into the total work area. It is important to sample in administrative areas as well, to ensure that non-trade employees and clients are not being exposed. To choose how many samples you need, simply count the areas in your studio.

3. Wipe Sampling

Wipe sampling must be conducted at least twice a year. This will verify the effectiveness of your control methods and cleaning. Wipe samples are collected from three surfaces in each area. This must include the lunchroom, change area and all administrative or non-work areas. The three surfaces to be sampled are usually the floor, a wall and a table, counter or work surface. This means you need three wipe samples for each area to be tested. To determine the number of wipe media you need, count the areas you want to test in the studio then multiply by three (for floor, wall and work surfaces). These areas must include the employee break area and change room. Once a year it is a good idea to sample the interior of the vehicle used to transport employees and windows to and from job sites.

Request enough pumps and air sample cassettes to sample each work task and work area. Request sufficient wipe sample media to sample three surfaces in all areas of the studio. In addition, you should sample each work task at the start of a large offsite job.

It must be understood that this schedule assumes that sample results will come back within acceptable limits. If the results are over the action limit or the PEL (permissible exposure limit), we will advise you to sample again after corrective actions have been implemented.

The SGAA has four pumps available for use for up to one week. The pumps must be returned for re-calibration after five uses. If you use the pumps to sample more than five days, results will be invalid. Wipe media is available in unlimited quantities at any time. The cost of the sample media includes laboratory analysis and reporting of results to the sampling facility.