

MHS Pre and Post BMP Air Sampling Plan

Eleven sampling locations are proposed within the MHS classrooms for the pre-BMP monitoring. The samples will be collected in Rooms 3, 4, 6, 7, 10, 14, 16, 302, 303, the faculty office adjacent to the girl's locker room and the storage closet adjacent to Room 1. The post-BMP sampling will include those rooms previously listed plus Rooms 2 and 9 for a total of 13 samples. One indoor air sample will be collected from each of the previously listed locations. The air samples will be analyzed for total PCBs and the 12 congeners with USEPA risk guidelines. The indoor air samples will be collected in the center of each room approximately 5 feet above the floor. Indoor air sampling methods used will be consistent with USEPA protocols for collecting air samples using TO-10A polyurethane foam (PUF) sampling and analysis methods (Compendium of Methods for the Determination of Compounds in Ambient Air, Second Edition, Compendium Method TO-10A, Determination of Pesticides And Polychlorinated Biphenyls In Ambient Air Using Low Volume Polyurethane Foam (PUF) Sampling Followed By Gas Chromatographic/Multi-Detector (GC/MD)) (EPA/625/R-96/010b). Frontier Laboratories in El Dorado Hills, California will analyze the samples. Turnaround time will be approximately 5 business days (expedited turnaround times). The laboratory will report the concentration of the total amount of PCBs plus 209 congeners.

The indoor air sampling procedure is described as follows.

- Building spaces will be examined to determine a location for deploying the sample. Samples will be collected to approximate conditions during a cold winter day (i.e., room ventilation system off, doors closed and some rooms with windows closed and other rooms with windows partially open). An attempt will be made to deploy the PUF samplers in areas not subject to disturbances.
- One field co-located duplicate air sample will be collected in the room with the highest initial air sampling result. The field duplicate will be collected using the same method as the other air samples.
- Air samples will be labeled with a unique sample designation number. The sample number and location will be recorded in the field log book.
- The pump flow rate will be measured using a primary standard prior to sample deployment, and recorded in the field log book. The start time will be recorded.
- Other data recorded will include: outside and interior temperatures at the start and end of the sample period, equipment serial numbers, sampler name, and any comments.

- The pump will be turned off at the end of the sample period (after 24-hours) and the end time recorded. Any evidence of sample disturbance during the sample collection will be recorded.
- The pump flow rate will be measured and recorded immediately after pump retrieval at the end of the sample period. Any samples where the flow rate was less than 85% of the original set point will be rejected. Field data will be verified as correctly entered into field books prior to shipment; and samples will be shipped to the laboratory under a chain-of-custody.
- MHS faculty, staff and students will be requested to keep out of the sampling area during the sampling event.

One ambient air sample will be collected in the same manner as the indoor air samples during pre-BMP and post-BMP sampling.

The pre-BMP sampling will be completed on December, 22 2013. Post-BMP sampling will be performed on completion of the BMP cleaning.

Phylmar will prepare a sampling and data summary report after the analyses are completed and will provide this report to the SMMUSD.