

SMU 56/57 Demonstration Project Air Monitoring Appendix B: Analytical Results

The Analytical Results log following documents all lab results reported from samples submitted specifically for the remediation project air monitoring effort. It does not include samples collected from the Urban Air Toxics sites incorporated into the report. All data in this section has been subject to third party quality review by Marcia Kuehl. A slightly expanded version of this log was submitted as the official record of samples collected from all media (air, sediment, water, etc.).

The additional information not presented here is generally repetitious for all samples in this report, and includes the sample Matrix (Air); the Analyte (Total PCB as Aroclor); the reporting Units (micrograms (ug)); the Limit of Detection (LOD: 0.1 ug/sample); the Limit of Quantitation (LOQ: 0.3 ug/sample); the Laboratory (Wisconsin State Lab of Hygiene (WSLH)); and the Method employed (WSLH Method 1920/Modified EPA Method T04 - Air PUF and Filter – PCB).

The following data is included in both the official analysis log and the abbreviated version included here:

Sample ID is the unique identifier for each sample.

Result which gives the analytically determined quantity of PCB recovered from the sampling material. “**ND**” means not detected. “***A**” indicates those samples which suffered lab accidents and were lost. “***I<**” indicates samples which have interferences present prevented more quantitative analysis.

Qualifier provides a code relating to the quality of the data. The most common code present is “**J**”, which indicates a value which is estimated. There are two separate applications for this code in our data. The first is for samples whose results are between the LOD and the LOQ. Strict definite quantitation of results in this range is not possible, so that all results in this range are estimated. The second application of the “**J**” code is for samples whose holding time exceeded the method recommendations. A discussion of this is present in the **Data Quality Review** section of the report.

Additional **qualifiers** appearing are: **1**, for samples which are above the LOQ; **2**, for samples below the LOD; and **0**, for samples which did not meet the requirements for definite quantitation following the method. The latter category include the samples which contained analytical interferences, and the back half portions of samples which did not return an Aroclor 1242 fingerprint.

Lab ID is a unique identifying code assigned by the lab upon receipt of samples.

Date Rec is the date samples were received by the lab. **Date Ext** is the date that the sample extraction procedure started. **Analysis Date** is the date that the sample extract was analyzed. **Sample Date** is the date sampling started in the field. **Comment** includes clarifying remarks for the results.