Gilsenan, Michael

From: Maltais.Nancy@epamail.epa.gov
Sent: Wednesday, May 01, 2002 4:15 PM
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Subject: WTC Indoor Air Sampling and Analytical Procedures for the workgroup meeting on 5/2

WTCindrairsamp.xls

----- Forwarded by Nancy Maltais/R2/USEPA/US on 05/01/02 04:10 PM -----

Dore LaPosta
05/01/02 04:10 PM

To: Nancy Maltais/R2/USEPA/US@EPA
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Subject: WTC Indoor Air Sampling and Analytical Procedures for the workgroup meeting on 5/2

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----- Forwarded by Dore LaPosta/R2/USEPA/US on 05/01/2002 04:07 PM -----

Carol Lynes
05/01/2002 02:35 PM

To: Dore LaPosta/R2/USEPA/US@EPA, Kathy Callahan/R2/USEPA/US@EPA, Dana Tulis/DC/USEPA/US@EPA
cc: Dan Harkay/R2/USEPA/US@EPA, William Sy/R2/USEPA/US@EPA, Shari Stevens/R2/USEPA/US@EPA,

Terry Smith/DC/USEPA/US@EPA, Marcus Kantz/R2/USEPA/US@EPA
Subject: WTC Indoor Air Sampling and Analytical Procedures for the workgroup meeting on 5/2

Attached is an excel table summarizing the sampling and analysis that we feel can be conducted for both the pilot and background studies. We're making progress.

This table may go through some slight modifications since there is still some information I am waiting for from RTP on lead sampling. Apparently lead dust sampling can be more difficult.

Please pay attention to the Sampling Vulnerability/Practicality column. This is most important for those porous/soft surfaces and the collection of silica for the porous and non-porous surfaces. These items will be what the workgroup or management will need to decide. Once we have the answers we can go forward with the SOW since it will affect the number of samples being collected.

Since the exclusion of Dioxins and PAHs in air sampling, we now believe that the remaining parameters can be sampled within an 8 hour period. (Much more practical for the background study)

I am also working on some text I hope to finish today. The text portion may be more appropriate to bring to the attention of the PICs workgroup. I will leave that up to you decide. Hopefully I can have something for you today.

I plan on bringing copies of this table to the meeting to handout and discuss unless you object. Based on the out come of the meeting and the decisions made, the SOW for the background study will be revised accordingly.

Carol L. Lynes
U.S.EPA Region 2
DESA
(732) 321-6760

(See attached file: WTCindrairsamp.xls)

WTC Indoor Air Monitoring - Sampling and Analytical Procedures

Media	Sampling Points	Analytical Parameters	Sampling Method Proposed	Sampling Vulnerability/Practicality	Analytical Method Proposed
Porous Soft surfaces	Carpets, fabric furniture or drapery in areas of activity (living rooms, family rooms)	Asbestos	Microvac ASTM 5755-95	"This test method does not describe procedures or techniques required to evaluate the safety or habitability of buildings with asbestos-containing materials, or compliance with federal, state, or local regulations or statutes. It is the user's responsibility to make these determinations." (Section 5.1.1 of method 5755-95)	ASTM 5755-95
		Lead	Microvac ASTM 5755-95**	"	NIOSH 7300
		Dioxins	Still checking on methods. Reached out to RTP and HQ. Waiting for additional information	After speaking with several people in HQ and RTP, it does not appear there are standardized methods for the collection of these parameters, rather many of the methods being used today are research and development procedures.	To be determined once the sampling method (if any) has be selected
		PAHs	"	"	"
		Silica	"	"	"
		MMVF	Microvac ASTM 5755-95	See the comment for asbestos. Samples will be combined with the asbestos sampling.	EMSL MSD.0300
Non-porous Hard surfaces	Horizontal surfaces of tables or counters and barefloors, ceilings and walls in areas of activity (living rooms, family rooms)	Asbestos	Wipe ASTM D 6480-99 or Microvac ASTM 5755-95	"This test method does not describe procedures or techniques required to evaluate the safety or habitability of buildings with asbestos-containing materials, or compliance with federal, state, or local regulations or statutes. It is the user's responsibility to make these determinations." (Section 5.1.1 of method 5755-95)	ASTM D 6480-99 (wipe) or ASTM 5755-95 (microvac)
		Lead	NIOSH 9100	None known, wipe sampling has been legally defended.	SW-846 6010B
		Dioxins	ASTM D 6661-01	"	ASTM 6661-01/SW-846 8290
		PAHs	ASTM D 6661-01	"	ASTM 6661-01/SW-846 8270C
		Silica	See comment for silica above.	See comment for silica above.	See comment for silica above.
		MMVF	Wipe ASTM D 6480-99 or Microvac ASTM 5755-95	Same as asbestos microvac. Samples will be combined with the asbestos sampling.	EMSL MSD.0300
Indoor Air	Areas of known activity (living rooms, family rooms)	Asbestos	NIOSH 7400	Air pump operated at 10L/min for 8 hours to achieve the PIC wkgroup detection limits	PCM NIOSH 7400 followed by TEM AHERA method.
		Lead	NIOSH 7300	Air pump operated at 10L/min for 8 hours to achieve the PIC wkgroup detection limits	SW-846 6010B
		Silica	NIOSH 7500	Air pump operated at 2.5L/min for 8 hours to achieve the PIC wkgroup detection limits	NIOSH 7500 (XRD)
		MMVF	NIOSH 7400	Assumed that it behaves the same as asbestos, samples will be combined with the asbestos sampling.	EMSL MSD.0300

NOTE: All samples (cassettes and wipes) will be preweighed by the laboratory or supplier prior to sample collection. After sample collection and upon receipt of the samples by the laboratory, the laboratory will weigh the sample wipe or cassette prior to performing the analysis.

** This method is for asbestos and is being modified for the collection of lead dust. Modification - to use the filter specified for method NIOSH 7300