

Theodorellys, Penny

From: Nace.Charles@epamail.epa.gov
Sent: Thursday, March 20, 2003 1:42 PM
To: Theodorellys, Penny
Cc: Radhakrishnan, Krish; Gilsenan, Michael; Callahan.Kathy@epamail.epa.gov
Subject: Re: FW: Dioxin Wipe results



R03030259 Cover
Letter.pdf



R03030259 excel
Report.xls

Penny,

I looked at the dioxin data that you forwarded to me and I have a few questions. The first is that I do not see the TEQ calculations that were detailed in Attachment 2 of the workplan (see below). The second is that the TEQs, when presented, should be reported in the units of ng/m² (alternatively, the TEQs could be reported in pg as long as someone provides the template area that was sampled so that I could add a row to the spreadsheet and calculate it myself). Without the TEQ calculations, it is not possible to compare the results to the health-based benchmark.

7 of 7

2/7/03

Attachment 2: Reporting Dioxin Sampling Results

1. The laboratory shall submit sample results in tabular format on the laboratory's letterhead. The date of sample collection, the matrix (e.g. wipe), and date analyzed must be printed on each page of the report. The table must contain, at a minimum, columns with the following headings and information.

- § Sample Identification Number
- § Analytical Method
- § Analyte
- § Result (including units)
- § Detection Limit
- § EMPC
- § Laboratory Flags
- § Standard Type
- § Dilution Factor
- § Recovery Limits
- § TEF, max TEF
- § # Isomers

2. Analytical results shall be reported using a 2,3,7,8 -TCDD

toxicity equivalence (TEQ). The TEQs shall be reported four ways. A TEQ which sets non-detects to zero (i.e., TEQ (ND=0)), a TEQ which sets non-detects at ½ the detection limit (i.e., TEQ (ND=1/2)), a TEQ Estimated Maximum Potential Concentration with non-detects set to zero (i.e., TEQ EMPC (ND=0)), and a TEQ Estimated Maximum Potential Concentration with non-detects set to ½ the detection limit (i.e., TEQ EMPC (ND=1/2)).

Thanks,

Chuck Nace
Environmental Toxicologist

USEPA - Region 2
290 Broadway - 18th Floor
New York, NY 10007-1866

212.637.3459
212.637.4164
212.637.4360 - fax
nace.charles@epa.gov