

DuPont

INTEROFFICE MEMORANDUM

Date: 12-May-1987 03:06pm EST
From: TONY PLAYTIS
PLAYTIS
Dept: TEFTECH
Tel No: 2775

TO: ROGER ZIPFEL (ZIPFEL)
CC: JOHN CRUM (CRUM)
Subject: C8 In Water

Attached is a copy of the analytical report for our five water samples, which are identified as follows.

- #1 - Washington Works drinking fountain, B3.
- #2 - Powell's General Store, Washington WV
- #3 - Lubeck Pennzoil, Lubeck WV
- #4 - Mason's Village Market, Little Hocking OH
- #5 - 812 20th Street, Vienna WV

C. L. Hill obtained samples 1-4 by driving to each location and asking to have a plastic bottle filled with drinking water. Sample 5 was taken by D. K. Moore at his home. All samples were taken on 3/13/87.

Note that the results are expressed as ppb F. When converted to ppb C8, the result of 1.3 ppb becomes 1.9 ppb. This result is higher than those from 1984, but considering how close we are to the detection limit of the test, the difference is probably not significant.

RJZ009208

EID136972

Polymer Products Department
Research & Development Division
Experimental Station

cc: M. A. Kaiser - 256
S. R. Laas - 256
M. Lombarski - 269
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G. J. Sloan - 323
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ANALYTICAL REPORT

May 7, 1987

To: A. J. Playtis - PPD, Washington Works

From: M. J. Vilone and R. M. Vasta - PPD, ESL 269
mgv *RWN*

PERFLUOROOCTANOATE (C8) IN WATER
(Job No. 870-441; PRAL Nos. 87-2933 - 2937, Notebook No. E44875)

Five samples of water have been analyzed for perfluorooctanoate (C8) by electron capture gas chromatography. Method ES-567 was used with the following modifications: sample size was 10 g; lyophilization was -18-20 hours; concentration of perfluorodecanoate internal standard was decreased 10 fold. Spiked standards at concentrations of 0.4, 0.5, 0.8, 1.0 and 1.9 ppb were examined. A reproducible detectable peak was observed for 0.4 ppb and we have used this as our detection limit. No C8 peak was detected in the spiked standards <.4 ppb. For the quantitation we had linear calibration curves over the range of 0.4 to 1.9 ppb. The samples were freeze dried, derivitized, and analyzed in duplicate. The results are expressed as ppb fluoride where $\text{ppb F} = 0.688 \times \text{ppb perfluorooctanoate}$.

The results are given in the attached table. If you have any questions, don't hesitate to call.

gmn
Attachment

Keywords:
GC
Perfluorooctanoate
Water

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Perfluorooctanoate in Water

<u>PRAL</u>	<u>Designation</u>	<u>ngF/g. H₂O (ppb) ^a</u>
87-2933	#1	n.d.
87-2934	#2	1.3 1.9 <i>as C-8</i>
87-2935	#3	1.3 1.9 <i>as C-8</i>
87-2936	#4	n.d.
87-2937	#5	n.d.

^a n.d. = none detected; detection limit = 0.4 ppb
.58 at C-8

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