

APPENDIX B



State of New Jersey

Department of Environmental Protection

Bureau of Southern Case Management

401 East State Street

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received
8-10-04
JAP

Bradley M. Campbe
Commissioner

James E. McGreevey
Governor

AUG 02 2004

Via REGULAR MAIL and CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. N. John Amato
Business Administrator
City of Camden Board of Education
201 North Front Street, 8 th Floor
Camden, NJ 08102

Re: Indoor Air Sampling Analyses at the Cooper's Poynt Elementary School site, Third and State Street,
Camden, Camden County

NJDEP Case #: 98-03-10-1635-16

Name/Location of School Sampled:

Cooper's Poynt Elementary School
Third and State Street, Camden, NJ
Block 21 Lot 124

Dear Mr. Amato:

The New Jersey Department of Environmental Protection (NJDEP) is writing to inform you of the results from the air samples collected at the Cooper's Poynt Elementary School on September 2, 2003 and January 2, 2004. By copy of this letter, followup on the aspect of air quality is being referred to the Camden County Health Department.

The NJDEP has been overseeing the remedial investigation and remedial actions associated with a discharge of # 2 heating oil from the underground storage tanks (USTs) at the Cooper's Poynt Elementary School building. Periodic sampling of the monitoring wells located on this site has identified contamination, specifically free product of # 2 heating oil in the ground water beneath the school building. The presence of free product in the ground water warranted action to assess indoor air contaminant levels. Consequently, at the direction of the Department, The SmithCo. Group, Inc., on behalf of City of Camden Board of Education, conducted air sampling and sub-slab soil gas sampling at the Cooper's Poynt Elementary School building.

On September 13, 2003, the City of Camden Board of Education collected six indoor air samples from classrooms 101, 102, 103, 116, 201 and 203 of the Cooper's Poynt Elementary School building and one outdoor air sample from the atrium (AT111), using summa canisters. All samples were analyzed for volatile organic compounds. Sample collection and analysis followed procedures outlined in Method T0-15 developed by the United States Environmental Protection Agency (USEPA). This method tests for fifty-two volatile organic compounds at very low levels.

As part of the air-sampling episode, an Indoor Air Building Survey questionnaire was also completed. These questions are designed to identify potential sources of air contamination associated with material stored in the classrooms of the school building.

The air sampling results of September 13, 2003 detected total xylenes in classrooms 101, 102, 103, 116, 201 and 203. Table 1, as enclosed in this letter, indicates the results of these air samples. The maximum concentration of total xylenes detected was 261 ug/m³ in classroom 102. In order to determine the source

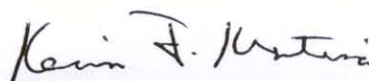
of total xylenes detected in aforementioned classrooms, specifically classroom 102 and 103; the Department's Field Directive dated December 30, 2003 required City of Camden Board of Education to conduct sub-slab soil gas sampling beneath the concrete floor of classrooms 101, 102, 103 and beneath the floor of the boiler room. In addition, indoor air sampling from classrooms 100, 101, 102, 103, 104, 116, 201, boiler room (106) and one background sample from the atrium (AT111) was required to be conducted.

On January 8, 2004 and January 30, 2004, the City of Camden Board of Education submitted the results of the seven indoor and one outdoor air samples and the analytical results of the sub-slab soil gas samples, respectively. The analytical results of one indoor air sample (RM 106) were not included in the data package dated January 8, 2004. The Seven-Trent Laboratory reported that the analysis of this sample was cancelled by City of Camden Board of Education due to the low final pressure reading in the somma canister. Subsequently, on January 15, 2004, RM 106 was re-sampled and the analytical results were submitted on January 26, 2004. The analytical results of these sampling events are presented in the enclosed Table 2 and Table 3 (enclosed).

The Department, in consultation with the New Jersey Department of Health and Senior Services (NJDHSS) and the Camden County Health Department, has reviewed the results of the indoor air samples in conjunction with the sub-slab soil gas samples and has determined that the source of the compounds detected in the classroom is not attributable to the discharge from the # 2 heating oil tank. The NJDHSS provided the NJDEP with a final modified indoor air guideline concentration for total xylenes for a specific exposure scenario for the Cooper's Poynt Elementary School. They also mentioned during the January 2, 2004 site visit to the School that strong odors were obvious in several classrooms. The NJDHSS stated that these odors may be due to products used and stored in the classrooms and/or from cleaning products used in the classrooms. Therefore, the Department is referring this aspect of the case (indoor air quality within the building of Cooper's Poynt Elementary School) to the Camden County Department of Health, who has jurisdiction over the indoor air quality within the school building. The Camden County Department of Health will be working with the NJDHSS to determine what actions need to be taken regarding the indoor air quality. If you have specific questions regarding indoor air quality or the compounds detected in the air samples from the Cooper's Poynt Elementary School Building, please contact Robert Lentine of the Camden County Health Department at (856) 374-6037.

If you have any questions regarding this letter, please feel free to contact Mohammad I. Qureshi at (609) 984-4892.

Sincerely,



Kevin Kratina, Bureau Chief
Bureau of Southern Case Management

Enclosure: Air Sampling Summary Tables

- c: Robert Lentine, Camden County Department of Health, w/ Air Sampling Summary Tables
- Julie Petix, NJDHSS, w/ Air Sampling Summary Tables
- Camden City Department of Health, w/ Air Sampling Summary Tables
- Jereme Johnson, Environmental Justice, w/ Air Sampling Summary Tables
- Municipal Clerk, Camden City, w/ Air Sampling Summary Tables
- Frank Ingram, w/ Air Sampling Summary Tables, Via Certified Mail
- Mohammad I. Qureshi, BSCM, w/Air Sampling Summary Tables
- Diane Groth, BEERA, w/Air Sampling Summary Tables
- C. W. Mitchel Lewis, w/Air Sampling Summary Tables
- Amine Ayubcha, w/Air Sampling Summary Tables

Indoor Air Results Table 1

Contaminant	Indoor Air Results RM 101 13-Sep-03	Indoor Air Results RM 102 13-Sep-03	Indoor Air Results RM 103 13-Sep-03	Indoor Air Results RM 116 13-Sep-03	Indoor Air Results RM 201 13-Sep-03	Indoor Air Results RM 203 13-Sep-03	Outdoor Background Results AT 111 13-Sep-03
Acetone	ND	29.00	29.00	50.00	21.00	17.00	
Benzene							
Bromodichloromethane							
Bromoethene							
Bromoform							
Bromomethane (Methyl bromide)							
1,3-Butadiene		3.80					
2-Butanone (Methyl ethyl ketone)		3.80	20.00	2.40			
Carbon disulfide							
Carbon tetrachloride							
Chlorobenzene							
Chloroethane							
Chloroform	1.40	1.40		1.40			1.40
Chloromethane (Methyl chloride)							
3-Chloropropene (allyl chloride)							
2-Chlorotoluene (<i>o</i> -Chlorotoluene)			1.80		10.00	2.50	
Cyclohexane							
Dibenzofuran							
Dibromochloromethane							
1,2-Dibromoethane							
1,2-Dichlorobenzene							
1,3-Dichlorobenzene				3.80			
1,4-Dichlorobenzene				2.70			
Dichlorodifluoromethane	3.00	3.10	3.40		3.30	2.90	2.80
1,1-Dichloroethane							
1,2-Dichloroethane							
1,1,1-Dichloroethene							
1,2-Dichloroethene (cis)							
1,2-Dichloroethene (trans)							
1,2-Dichloropropane							
cis-1,3-Dichloropropene							
trans-1,3-Dichloropropene							
1,2-Dichlorotetrafluoroethane							
Ethylbenzene	3.70	41.00	18.20	10.00	4.80	4.30	
4-Ethyltoluene (<i>p</i> -Ethyltoluene)							
<i>n</i> -Heptane			4.90		12.00	2.60	

Indoor Air Results Table 1

Contaminant	Indoor Air Results RM 101 13-Sep-03	Indoor Air Results RM 102 13-Sep-03	Indoor Air Results RM 103 13-Sep-03	Indoor Air Results RM 116 13-Sep-03	Indoor Air Results RM 201 13-Sep-03	Indoor Air Results RM 203 13-Sep-03	Outdoor Background Results AT 111 13-Sep-03
Hexachlorobutadiene							
n-Hexane					2.80		
Methylene chloride					1.80		
4-Methyl-2-pentanone (MIBK)							
Methyl tert-butyl ether (MTBE)	2.30	2.50	4.30	2.30	5.40	4.00	2.00
Styrene			3.40				
Tertiary butyl alcohol (TBA)							
1,1,2,2-Tetrachloroethane							
Tetrachloroethene (PCE)							
Toluene	3.10	3.70	3.40	6.00	3.40	2.80	1.90
1,2,4-Trichlorobenzene							
1,1,1-Trichloroethane							
1,1,2-Trichloroethane							
1,1,2-Trichloro-1,2,2-trifluoroethane							
Trichloroethene (TCE)							
Trichloromonofluoromethane							
1,2,4-Trimethylbenzene							
1,3,5-Trimethylbenzene							
2,2,4-Trimethylpentane				3.00			
Vinyl chloride							
Xylenes (m & p)	14.00	200.00	78.00	38.00	21.00	20.00	
Xylenes (o)	6.10	61.00	32.00	14.00	8.70	7.80	
Xylenes (total)	20.10	261.00	110.00	52.00	29.70	27.80	
Notes:							
All results are reported in ug/m ³							