

January 7, 2014

Mr. Bernard P. Orlan
Director, Environmental Health & Safety
New York City Department of Education
44-36 Vernon Blvd., 3rd Floor
Long Island City, NY 11101

**Re: PCB Wipe Sampling Report
P.S. 15K
Cardno ATC Project: No. 42672.3743
Work Order No. 00521717 02**

Dear Mr. Orlan:

Cardno ATC was retained by NYC-DOE to perform a limited PCB wipe sampling inspection at K015 located at 71 Sullivan Street, Brooklyn, NY 11231. The inspection was performed by Mr. Ricardo Vilchez on January 6, 2014 and it was limited to wipe samples collection and analysis within 1st Floor Corridor to determine if any surface was contaminated with PCB, following the removal of failed T-12 light fixture ballast. The light fixture ballast was removed by Triumvirate Environmental, a hazardous waste management contractor retained by NYC-DOE to provide removal and clean up services.

BACKGROUND

Polychlorinated biphenyls are a group of man-made chemicals that can cause a number of different harmful effects. PCB's are either oily liquids or solids and are colorless to light yellow. There are no known natural sources of PCB's in the environment. PCB's were used mainly in making electrical transformers, capacitors and other heat transfer devices but some were also used in building materials.

PCB's may be present in older fluorescent light fixtures in any school building that had fluorescent lights installed before 1979 and never had a lighting upgrade. The ballast is a transformer inside the light fixture that is not accessible unless the light is disassembled. PCB's are contained within the light ballasts' capacitors and in the ballasts' potting material (a black tar-like substance used to protect the capacitor). As the ballast ages, it can overheat causing a burning or smoky odor or in some cases, causing tar from the potting material or oil to drip from the fixture.

Indications of leaking PCB ballasts may include the presence of an oily film on the metal casing, a leaking putty-like compound (the potting material), or discoloration of the metal casing. Other leaking signs include drips, buzzing, and discoloration of the light ends. Almost all ballast casings are a single color (often black or white) with a contrasting label. Leaks, when present, are usually found around the metal seams of the casing. Indications of burning PCB ballast may include: an acrid and burning tar odor; melted tar oozing from the casing seams; and visible electrical lead bushings. It is very rare for PCB ballasts to actually catch on fire.

Evaluation Criteria for PCB Spills

PCB manufacture, use, storage and disposal are regulated by U.S. EPA under TSCA and Part 761, Title 40 of the Code of Federal Regulations (40 CFR Part 761). TSCA regulates any materials or wastes that contain PCBs at concentrations of 50 ppm (parts per million) or greater. Light ballasts containing PCB oil in the small capacitor or the potting compound are included in this regulation. Leaking PCB ballasts are regulated as hazardous wastes and toxic substances. Proper handling and cleanup of leaking PCB ballasts is necessary to protect public health and the environment. TSCA regulates disposal of PCB wastes with concentrations over 1 ppm. Leaking PCB light ballasts often generate wastes in excess of 1 ppm. In addition, PCBs are regulated under TSCA if an impervious surface shows 10 micrograms (ug) per 100 square centimeters (cm²) of PCBs. Examples of this in the classroom are the surfaces of floors, desks, and bookcases.

PCB WIPE SAMPLES

Cardno ATC collected a total of three (3) samples (two surface samples and one blank) within 1st Floor Corridor and subsequently sent them to New York Environmental and Analytical Labs., Inc. for analysis via EPA 8082 Method. All samples were obtained in accordance with EPA 40CFR 761.123 and NYC-DOE "PCB Light Ballasts Wipe Sampling Protocol" and included using a 10x10 cm template to outline the sample area and a sterile gauze pad wetted with hexane or reagent grade acetone to collect the sample. The hexane or reagent grade acetone wetted pad was used to wipe the area outlined with the 100 cm² template or the measured area if the area is an irregular surface. The area was wiped completely twice, from left to right and then from top to bottom. For waxed surfaces such as floors the wetting agent used is de-ionized water or distilled water because solvents used on waxed surfaces will not give an accurate analysis for PCB's. The wipe media was then inserted into a 6 ounce sterilized glass vial and delivered to the laboratory.

The following table summarizes the inspection results:

Table 1.0 PCB Wipe Sample Results (after ballast removal)

Sample Id. No.	Location	Type of Surface Sampled	Sample Media	Detection Limit (ug/cm ²)	Result (ug/cm ²)
01	Blank	Blank	Gauze Pad w/ deionized water	3	<3
02	1 st Floor Corridor, near Room #108A	Floor- 9x9 green VFT (underneath light fixture with smoking ballast)	Gauze Pad w/ deionized water	0.03	<0.03
03	1st Floor Corridor, near Room #108A	Floor- 9x9 green VFT (underneath light fixture with smoking ballast)	Gauze Pad w/ deionized water	0.03	<0.03

CONCLUSIONS

Wipe samples obtained from floor in 1st Floor Corridor near Room #108A, show PCB concentrations to be below the detection limit.

Cardno ATC is pleased to be of service to the New York City Department of Education. Please feel free to contact us at (212) 353 8280 ext. 268 if you should have any questions or comments concerning this report.

Cardno ATC



Mike Balota
Project Manager

Appendixes: A- PCB Data and Chain of Custody Forms
B- PCB Analytical Results
C- Laboratory Certifications
D- NYC DOE Work Order Request

APPENDIX A

PCB DATA AND CHAIN OF CUSTODY FORMS

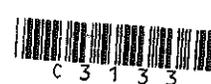
PCB WIPE SAMPLING COC

39399

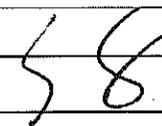
PROJECT INFORMATION

1. Client NYC-DOE		2. Project Name: PS-015K	3a. ATC Project No.: 42672.3743	4a. Project Manager: Dragos Balota
5. Date: 01-06-14		2a. Project Address: 71 SULLIVAN ST, BKLYN, NY 11231	3b. Task No.: 0001	4b. Inspector: Ricardo Vilchez
6. Building Name:		8. Turnaround Time: RUSH (6 hours or less)		9. Comment s (Field) Analyze all samples via 8082 Method.
7. Location: Room # 1ST FL HALLWAY ACROSS RM. 108A				

WIPE SAMPLE LOCATION

10. Sample ID No.	11. LAB ID No.	12. Room No.	13A. Surface Sampled	13B. Sample Coordinates (x and y)	14. MEDIA	15. Area Sampled (cm ²)	16. MDL (ug/cm ²)	16A. RESULT (ug/cm ²)
108A-01		1ST FL HALLWAY	BLANK	—	Gauze Pad w/ Hexane-DEION WATER	—	0.03 3.0g	ND 23.0g
108A-02		1ST FL HALLWAY	9" x 9", GREEN, VINYL FLOOR TILE	UNDERNEATH LIGHT FIXTURE, 3' AWAY FROM RM. 108A WALL.	GAUZE PAD w/ DEION WATER	100	0.03	ND 0.03
108A-03		1ST FL HALLWAY	9" x 9", GREEN, VINYL FLOOR TILE	UNDERNEATH LIGHT FIXTURE, 5' AWAY FROM RM. 108A WALL.	GAUZE PAD w/ DEION WATER	100	0.03	ND 0.03
<p>2040019</p>  <p>C 3 1 3 3</p>								

CHAIN OF CUSTODY

17. Relinquished By	18. Date	19. Time	20. Received By	21. Date	22. Time	23. Method of Submittal
I. RICARDO VILCHEZ	01-06-14	1400		01-06-14	1400	Field Walk In <input checked="" type="checkbox"/>
II.						US Mail <input type="checkbox"/>
III.						Fed-Ex <input type="checkbox"/>
						Other <input type="checkbox"/>

LABORATORY INFORMATION

24. Name and Signature: Wai S. Cheng	25. Date	26. Time	27. Comments: Please email results to dragos.balota@cardno.com
24a. Analyzed By:			
24b. Analyzed By:			
24c. QC By:			

APPENDIX B

PCB ANALYTICAL RESULTS

CLIENT:	Cardno ATC 104 E. 25 St. 10th fl. New York, NY 10011	REPORT NO.	2140019
		PROJECT NO.	39399
	42672.3743	SAMPLED:	1/6/14
PROJECT:	K015	RECEIVED:	1/6/14
	71 Sullivan Street, Brooklyn, NY	ANALYZED:	1/6/14
		REPORTED:	1/6/14

ANALYTICAL REPORT

PCB WIPE
 GC/ECD (EPA METHOD 8082A/3550C)

COMPOSITED SAMPLE ID: **108A-01** BATCH NO. **C3133-1**
 MATRIX: SURFACE WIPE
 SAMPLE LOCATION: **Blank**

TYPE OF PCB	CAS NO.	RESULT (ug)	MINIMUM DETECTION LIMIT (ug)
PCB 1016	12674-11-2	<3	3
PCB 1221	11104-28-2	<3	3
PCB 1232	11141-16-5	<3	3
PCB 1242	53469-21-9	<3	3
PCB 1248	12672-29-6	<3	3
PCB 1254	11097-69-1	<3	3
PCB 1260	11096-82-5	<3	3


 NICOLE CHEUNG
 CHEMIST


 LI TSANG
 LABORATORY DIRECTOR

The report relates only to the items tested, as received by the laboratory. This report cannot be used in part and may only be used in full with this laboratory's approval. This report must not be used in any way to claim product endorsement by New York Environmental and ELAP of NYSDOH.

APPENDIX C

LABOARTORY CERTIFICATIONS

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2014
Issued April 01, 2013

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE
Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. LI SANG
NY ENVIRONMENTAL AND ANALYTICAL LABS INC.
88 J HARBOR ROAD
PORT WASHINGTON, NY 11050

NY Lab ID No. 11510

is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2003) for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Characteristic Testing

TCLP	EPA 1311
Polychlorinated Biphenyls	
PCB 1036	EPA 8082
PCB 1221	EPA 8082
PCB 1232	EPA 8082
PCB 1242	EPA 8082
PCB 1249	EPA 8082
PCB 1254	EPA 8082
PCB 1260	EPA 8082

Sample Preparation Methods

EPA 8950B

Serial No. 48693

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be contemporaneously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (516) 485-3570 to verify the laboratory's accreditation status.



APPENDIX D

NYC DOE WORK ORDER REQUEST

3743

Facility: DSF DIVISION OF SCHOOL FACILITIES
Unit : K Project :
W/O Type: CO Task Pri: 04 Tsk Dspln: H
Planner : SNAPOLIT NAPOLITANO
W/O Title : 75/15K015/ REMOVE & REPLACE SMOKING
W/O Task Title: 75/15K015/PREFORM AIR TEST IN HALLWA
Written To : P.S. 15 - BROOKLYN

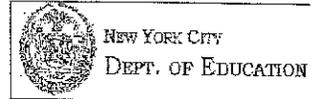
Completed By:



Work Order Package

00521717 02

Rpt : TIPMC11
Date: 01/06/2014



Page: 1

Work Order Task Written To

Facility : DSF Unit : K Op Sys : GEO-15
Division : Area : ISC4 Sys/Cls: K015
Equipment : ABLDG K015 Component:
Work Item : Eqt. List: Ops Review Reqd: N
Equip. Tag: Alt:
UTC : Tbl/Brkdwn: (Past 12 mo)
Catalog ID: Job Type : ET UCR: GN14
Client/Act: GPER5393 GERARD PERRONE
Location : K00 56600001 000001 71 SULLIVAN ST, BROOKLYN, NY 11231
Cost Centr: G839 Activity : User Def:
Percentage: 100.000 Acct No. : GL

Work Order Task Instructions

preform air test in 1st fl. hallway (smoking ballast)
near room 109
Custodian LIAM NAUGHTON 718-241-3654

BERNIE SENT JOB TO ATC RUN PCM AIR TEST 01/06/14.

Completion Comments on Work Performed

Completion Comments Required : N

Comments:

Comments:

Comments:

Continued on Additional Sheets? : _____