

December 6, 2013

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. 2Q
Cardno ATC Project: No. 42672.3574
Work Order No. 00519022 03

Dear Mr. Orlan:

Cardno ATC was retained by NYC-DOE to perform a limited PCB wipe sampling inspection at Q002 located at 75-10 21st Street, Jackson Heights, NY 11370. The inspection was performed by Mr. Ricardo Vilchez on December 5, 2013 and it was limited to wipe samples collection and analysis within Room #100 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 Room #100 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	Room #100	Student's Desk (x=8, y=7)	Gauze Pad w/ deionized water	0.03	<0.03
03	Room #100	Floor- 12x12 pink & beige VFT (x=5, y=7)	Gauze Pad w/ deionized water	0.03	<0.03

CONCLUSIONS

Wipe samples obtained from desk and floor in Room #100 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

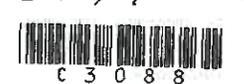
PCB DATA AND CHAIN OF CUSTODY FORMS

PCB WIPE SAMPLING COC

PROJECT INFORMATION

1. Client: NYC-DOE		2. Project Name: <i>PS-02Q</i>	3a. ATC Project No.: <i>42672, 3574</i>	4a. Project Manager: Dragos Balota
5. Date: <i>12-05-13</i>		2a. Project Address: <i>75-10 21ST ST. JACKSON HGTS, NY 11370</i>	3b. Task No.: 0001	4b. Inspector: Ricardo Vilchez
6. Building Name:		8. Turnaround Time: RUSH (6 hours or less)		9. Comments (Field): Analyze all samples via 8082 Method.
7. Location: Room # <i>100</i>				

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)
<i>100-01</i>		<i>100</i>	<i>BLANK</i>	<i>—</i>	<i>Gauze Pad w/ Hexane DEION WATER</i>	<i>—</i>	<i>2 ug</i>	<i>< 0.03 ug</i>
<i>100-02</i>		<i>100</i>	<i>STUDENT'S DESK TOP</i>	<i>X → 8'</i> <i>Y → 7'</i>	<i>GAUZE PAD w/ DEION WATER</i>	<i>100</i>	<i>0.03</i>	<i>< 0.03</i>
<i>100-03</i>		<i>100</i>	<i>PINK & BEIGE, 12 x 12" VINYL FLOOR TILE</i>	<i>X → 5'</i> <i>Y → 7'</i>	<i>GAUZE PAD w/ DEION WATER</i>	<i>100</i>	<i>0.03</i>	<i>< 0.03</i>
<i>2133835</i>								
 C 3 0 8 8								

CHAIN OF CUSTODY

17. Relinquished By	18. Date	19. Time	20. Received By	21. Date	22. Time	23. Method of Submittal
<i>I. RICARDO VILCHEZ</i>	<i>12-05-13</i>	<i>1:00</i>	<i>[Signature]</i>	<i>12-5-13</i>	<i>19:00</i>	<input checked="" type="checkbox"/> Field Walk In
<i>II.</i>				<input type="checkbox"/> US Mail		
<i>III.</i>				<input type="checkbox"/> Fed-Ex	<input type="checkbox"/> Other	

LABORATORY INFORMATION

24. Name and Signature:	25. Date	26 Time	27. Comments:
24a. Analyzed By:			Please email results to dragos.balota@cardno.com
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.	2133835
		PROJECT NO.	39323
		SAMPLED:	12/05/13
		RECEIVED:	12/05/13
PROJECT:	P.S 02Q – 42672.3574 75-10 21 st Street, Jackson Heights, NY 11370	ANALYZED:	12/05/13
		REPORTED:	12/06/13

ANALYTICAL REPORT

PCB WIPE

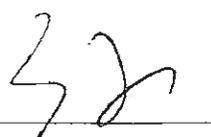
GC/ECD (EPA METHOD 8082A/3550C)

COMPOSITED SAMPLE ID: 100-01
MATRIX: SURFACE WIPE
SAMPLE LOCATION: Blank

BATCH NO.: C3088-1

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.

CLIENT: Cardno ATC
104 E. 25 St. 10th fl.
New York, NY 10011

PROJECT: P.S 02Q - 42672.3574
75-10 21st Street,
Jackson Heights, NY 11370

REPORT NO. 2133835
PROJECT NO. 39323

SAMPLED: 12/05/13
RECEIVED: 12/05/13
ANALYZED: 12/05/13
REPORTED: 12/06/13

ANALYTICAL REPORT

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

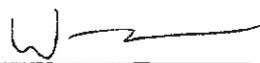
COMPOSITED SAMPLE ID: 100-02

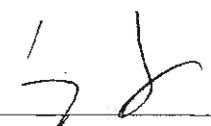
BATCH NO.: C3088-2

MATRIX: SURFACE WIPE

SAMPLE LOCATION: Room 100 (Student Desk Top)

TYPE OF PCB	CAS NO.	RESULT (ug/cm ²)	MINIMUM DETECTION LIMIT (ug/cm ²)
PCB 1016	12674-11-2	<0.03	0.03
PCB 1221	11104-28-2	<0.03	0.03
PCB 1232	11141-16-5	<0.03	0.03
PCB 1242	53469-21-9	<0.03	0.03
PCB 1248	12672-29-6	<0.03	0.03
PCB 1254	11097-69-1	<0.03	0.03
PCB 1260	11096-82-5	<0.03	0.03


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CLIENT: Cardno ATC
 104 E. 25 St. 10th fl.
 New York, NY 10011

PROJECT: P.S 02Q – 42672.3574
 75-10 21st Street,
 Jackson Heights, NY 11370

REPORT NO. 2133835
PROJECT NO. 39323

SAMPLED: 12/05/13
RECEIVED: 12/05/13
ANALYZED: 12/05/13
REPORTED: 12/06/13

ANALYTICAL REPORT

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

COMPOSITED SAMPLE ID: 100-03

BATCH NO.: C3088-3

MATRIX: SURFACE WIPE

SAMPLE LOCATION: Room 100 (12"x12" Vinyl Floor Tile, Pink & Beige)

TYPE OF PCB	CAS NO.	RESULT (ug/cm ²)	MINIMUM DETECTION LIMIT (ug/cm ²)
PCB 1016	12674-11-2	<0.03	0.03
PCB 1221	11104-28-2	<0.03	0.03
PCB 1232	11141-16-5	<0.03	0.03
PCB 1242	53469-21-9	<0.03	0.03
PCB 1248	12672-29-6	<0.03	0.03
PCB 1254	11097-69-1	<0.03	0.03
PCB 1260	11096-82-5	<0.03	0.03


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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 TSANG
NY ENVIRONMENTAL AND ANALYTICAL LABS INC
88 HARBOR ROAD
PORT WASHINGTON, NY 11050

NY Lab ID No. 11570

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-1016 EPA 8082

PCB-1221 EPA 8082

PCB-1222 EPA 8082

PCB-1242 EPA 8082

PCB-1249 EPA 8082

PCB-1254 EPA 8082

PCB-1259 EPA 8082

Sample Preparation Methods

EPA 3550B

Seal No. 48693

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the program. Consumers are urged to call (516) 486-5570 for verification of laboratory's accreditation status.



APPENDIX D

NYC DOE WORK ORDER REQUEST

3574

Facility: DSF DIVISION OF SCHOOL FACILITIES
 Unit : Q Project :
 W/O Type: CO Priority: 04 W/O Dspln: H
 Planner : PCASEY2 CASEY
 W/O Title : 75/30Q002/REMOVE AND REPLACE T12 FIX
 W/O Task Title: 77/30Q002/AIR TEST RM 100 AFTER ABAT
 Written To : P.S. 2 - QUEENS
 Task Dspln : Completed By:



Work Order Package
00519022 03
 Rpt : TIPMC11
 Date: 12/06/2013

NEW YORK CITY
DEPT. OF EDUCATION

Page: 1

Work Order Task Written To

Facility : DSF	Unit : Q	Op Sys : GEO-30
Division :	Area : ISC2	Sys/Cls: Q002
Equipment : ABLDG Q002	Component:	
Work Item :	Eqt. List:	Ops Review Req: N
Equip. Tag:	Alt:	
UTC :	Tbl/Brkdwn: (Past 12 mo)	
Catalog ID:	Job Type : ET UCR:LB14	
Client/Act: JMIS9953	JOSEPH MISTRETTA	
Location : Q00 97100001 000001 75 -10 21 AV, JACKSON HEIGHTS, NY 11370		
Cost Centr: G839	Activity :	User Def:
Percentage: 100.000	Acct No. : GL	

Work Order Task Instructions

AIR TEST RM 100 AFTER ABATEMENT
 PAUL ROBERTS 718-641-1667

Completion Comments on Work Performed

Completion Comments Required : N

Comments:

Comments:

Comments:

Continued on Additional Sheets? : _____