



STATE OF NEW YORK  
OFFICE OF GENERAL SERVICES  
DESIGN AND CONSTRUCTION GROUP  
THE GOVERNOR NELSON A. ROCKEFELLER  
EMPIRE STATE PLAZA  
ALBANY, NY 12242



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**ADDENDUM NO. 1 TO PROJECT NO. M3016**

**CONSTRUCTION WORK  
REPLACE ROOF BUILDING 1  
QUEENSBORO CORRECTIONAL FACILITY  
47-04 VAN DAM STREET  
LONG ISLAND CITY, NY 11101-3081**

December 12, 2014

**NOTE:** This Addendum forms a part of the Contract Documents. Insert it in the Project Manual.  
Acknowledge receipt of this Addendum in the space provided on the Bid Form.

**DRAWINGS**

1. Drawing No. G-001:
  - a. GENERAL NOTES, Add Note:  
  
“11. TEMPORARY STORAGE OF THE COOLING TOWER FROM ROOF G WILL BE PROVIDE IN A DESIGNATED AREA IN THE FACILITY PARKING LOT ADJACENT TO THE WORK.”
2. Drawing No. D-100:
  - a. Type Roof A1, A2 & D Removal, (D4/D100), Add note to Read:  
  
“REMOVE PEASTONE TOPPING”
3. Drawing No. A-100:
  - a. Typ. Roof Detail @ Roof F, (D4/A100), Change Note “EXISTING CONCRETE ROOF DECK TO REMAIN” To Read: “EXISTING METAL ROOF DECK TO REMAIN”

**APPENDIX**

4. ASBESTOS ABATEMENT REPORT: Add the attached Document (Entek Queensboro Asbestos Report) to the Project Manual.

**END OF ADDENDUM**

Margaret F. Larkin  
Executive Director

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**Limited Pre-Renovation Inspection  
for Asbestos, Lead and  
Polychlorinated Biphenyls  
Queensboro Correctional Facility,  
Replace Roof**

Queensboro Correctional Facility  
47-04 Van Dam Street  
Long Island City, New York 11101

Project No. M3016

*prepared for*

Department of Corrections and Community Supervision

*prepared by*

Entek Environmental & Technical Services, Inc.

October, 2014



NYS OFFICE OF GENERAL SERVICES

*Serving New York*

*Andrew M. Cuomo*  
*Governor*

*RoAnn M. Destito*  
*Commissioner*

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**Table of Contents**

Scope of Work .....	1
Inspection .....	1
Building Summary .....	1
Asbestos-Containing Materials .....	2
Non Asbestos Containing Materials .....	2
Lead-Containing Materials .....	3
Polychlorinated Biphenyl Containing Materials .....	3
Recommendations .....	3
Document Content .....	4
Document Use .....	4
Appendix A - Asbestos Bulk Samples, Polarized Light Microscopy (PLM), Laboratory Results	
Appendix B - Asbestos Bulk Samples, Polarized Light Microscopy/Non-Friable Organically Bound (PLM/NOB) Laboratory Results	
Appendix C - Asbestos Bulk Samples, Transmission Electron Microscopy/Non-Friable Organically Bound (TEM/NOB) Laboratory Results	
Appendix D - Lead Bulk Samples, Atomic Absorption Spectrometry (AAS)	
Appendix E - Polychlorinated Biphenyl (PCB) Bulk Samples, Gas Chromatography SW-846 8082 Laboratory Results	

This report presents the results of a limited pre-renovation inspection for asbestos-containing materials (ACM), lead-containing materials and polychlorinated biphenyl-containing materials (PCBs) by Entek Environmental & Technical Services, Inc. (Entek) for Queensboro Correctional Facility, 47-04 Van Dam Street, Long Island City, New York 11101. This inspection was performed for the purpose of locating suspect asbestos, lead and PCB-containing materials related to rooftop mounted mechanical and electrical equipment.

## **Scope of Work**

The scope of work included:

- Conduct field investigations of the areas affected by the project. Obtain bulk samples of suspect asbestos-containing materials, lead coatings and polychlorinated biphenyl-containing materials.
- Analysis of suspect materials for asbestos content and other major components. The samples were submitted to Eastern Analytical Services, Inc. (EAS), for analysis by Polarized Light Microscopy (PLM). EAS is fully accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) and the New York State Department of Health, Environmental Laboratory Approval Program (ELAP). Results of bulk samples from Non-Friable Organically Bound (NOB) suspect materials (i.e. roof mastic, flashing, bituminous coatings, roof felts, and caulk) were analyzed by PLM-NOB. Negative PLM-NOB samples were confirmed by Transmission Electron Microscopy, ELAP Item No. 198.4.
- Analysis of coatings from representative samples for lead content. Suspect Lead-containing samples were submitted to Eastern Analytical Services, Inc. for analysis by Atomic Absorption Spectrometry (AAS).
- Analysis of materials from representative caulk for Polychlorinated Biphenyl (PCB). The samples were submitted to Pace Analytical Services, Inc. (Pace) for analysis by Gas Chromatography, EPA Method SW-846 8082 (PCB). Pace is fully accredited by the New York State Department of Health, Environmental Laboratory Approval Program (ELAP).
- Preparation of a report documenting the results of the inspection, including laboratory results and recommendations.

## **Inspection**

The facility inspection was performed by Henry Uhlig, Principal & Thomas Bailly, Project Technician of Entek on October 2, 2014.

## **Building Summary**

Queensboro Correctional Facility is a six story structure located at 47-04 Van Dam Street, Long Island City, New York. The structure is constructed of cast in place concrete floor slabs with concrete encased steel beams at the exterior. Floors two through six are structural steel with masonry wall and floor construction. Access to roofs is from the 6<sup>th</sup> and 2<sup>nd</sup> floors.

This survey was limited to roof top mechanical and electrical components, which may be disturbed during roof replacement.

**Asbestos-Containing Materials**

Suspect materials were analyzed by Polarized Light Microscopy (PLM). Based on laboratory analysis, the following materials contain greater than one percent asbestos and are considered asbestos-containing material (ACM) as defined by OSHA, EPA, and New York State Code Rule 56. Sample results are located in Appendices A, B and C.

Asbestos-Containing Material	Material Location	Asbestos Content	Estimated Quantity	Condition	Friable Yes/No
Bituminous Coating Patch on Foam Duct Insulation (Black)	Roof G Air Handling Unit, East	4.0% Chrysotile	9 SF	Intact	No

**Non Asbestos-Containing Materials**

Suspect materials were analyzed by Polarized Light Microscopy (PLM). Non-friable organically bound materials found negative by PLM were confirmed by Transmission Electron Microscopy Non-Friable Organically Bound Analysis\* (TEM/NOB). Based on the analytical results received, the following materials contain one percent (1%) or less asbestos and do not meet the definition of asbestos-containing material by OSHA, EPA, and Code Rule 56. Sample results are located in Appendices A, B and C.

Non-Asbestos-Containing Material	Location
Foam Duct Insulation Adhesive (Yellow)	Roof G, AHU East Side
Gray Caulk on Air Handling Unit Seams	Roof G, AHU-East Side
Gray Caulk on Air Handling Unit Seams	Roof G, AHU-West Side
Gray Cementitious Coating on Parapet Wall	Roof G, South and East Parapet Cap
Gray Plaster Stucco Wall Finish Coat	Roof G Sidewall
Gray Plaster Stucco Wall Scratch Coat	Roof G Sidewall
Gray Cementitious Coating on Concrete Masonry Unit Wall	Roof B

\*Denotes Negative PLM-NOB Samples confirmed by Transmission Electron Microscopy, Non-Friable Organically Bound Method, ELAP Item No. 198.4.

### Lead-Containing Materials

Bulk paint chip samples were analyzed by Atomic Absorption Spectrometry (AAS) the current industry standard for determining lead content in paint. Painted surfaces at the following locations contained detectable levels of lead. Laboratory analysis reports are located in Appendix D.

Location	Component/Color	Weight Percent Lead
Roof G	Silver paint on angle iron ductwork support	BDL
Roof G	Gray paint on steel security enclosure	0.04%
Roof G	Silver paint on steel cooling tower piping	0.08%
Roof G	Blue paint on steel window security screen	0.34%
Roof A	Black/brown paint on steel roof ladder	3.60%
Roof A	Gray paint on steel water tower supports	0.07%
Roof A	Black paint on rooftop pipe saddle	0.29%
Roof A	Light blue paint on steel pipe	0.03%
Roof B	Cream paint on concrete masonry unit wall	0.14%

BDL: Below Detectable Limits

### Polychlorinated Biphenyl-Containing Materials

Bulk samples were analyzed by EPA Method SW-846 8082 for PCB concentration. Laboratory analysis results are located in Appendix E.

Material	Location	Total PCB Concentration parts per million (ppm)
Gray caulk on air handling unit (AHU)	Roof G, AHU east	1.58%
Gray caulk on air handling unit (AHU)	Roof G, AHU west	0.722%

### Recommendations

#### Asbestos-Containing Materials

Asbestos-containing materials associated with Queensboro Correctional Facility as noted in the asbestos-containing materials table were found. This material must be removed if disturbance is necessary for roof replacement.

Asbestos is regulated by Part 56 of Title 12 of the Official Compilation of Codes, Rules and Regulations of the State of New York (Cited as 12 NYCRR Part 56) commonly referred to as "Code Rule 56." Code Rule 56 sets forth work procedures, engineering controls, air monitoring requirements, contractor licensing, worker certification, and project notification requirements for asbestos projects.

Abatement projects located in the City of New York must also be performed in accordance with New York City Department of Environmental Protection, Title 15, Chapter 1, Rules of the City of New York.

#### Lead Containing Paint

Lead-containing paint was detected on various painted surfaces in low concentrations.

Disturbance of lead-containing painted surfaces or components shall be performed in compliance with regulations and guidelines of applicable Federal State and local agencies. Disturbance of paint and materials that contain any amount of lead is regulated by the OSHA Lead in Construction Standard, 29 CFR 1926.62.

#### Polychlorinated Biphenyl-Containing Materials

Polychlorinated Biphenyls (PCBs) are regulated by EPA 40 CFR part 761 Subpart A through Subpart T, "Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, distribution in commerce, and use prohibitions." PCBs at concentrations above 50 parts per million (PPM) are classified by EPA as "unauthorized" for use. Caulk sampled was less than 50 ppm for PCBs. Therefore, no special handling or disposal requirements are necessary for the material sampled.

### **Document Content**

Consultation has been provided as stated in the Scope of Entek Services. If local knowledge indicates error, omissions, or inaccuracy, notify the consultant.

The knowledge of the consultant, Entek Environmental & Technical Services, Inc., is based upon current information and research. The status of said information, research, and technology could change in the future, thus affecting the services provided.

### **Document Use**

The document and all attachments here provided by the consultant, Entek Environmental & Technical Services, Inc., are for the exclusive use of Architecture+ and NYS Office of General Services.

**APPENDIX A**  
**Asbestos Bulk Samples, Polarized Light Microscopy (Point Count)**  
**Laboratory Results**



# Eastern Analytical Services, Inc.

Phone (914) 592-8380

4 Westchester Plaza  
Elmsford, New York 10523-1610  
<http://www.EASInc.com>

Fax (914) 592-8956

October 10, 2014

Mr. Henry Uhlig  
ENTEK  
3 Agway Drive  
Rensselaer, NY 12144

RE: EAS Batch No. 1408121 - CPN 23031-71 - Architecture + - Queensboro CF

Dear Mr. Uhlig:

Enclosed please find the laboratory results for the 10 bulk samples received by Eastern Analytical Services, Inc. October 03, 2014. The analysis was performed in accordance with EPA/600/R-93/116 and NYS-DOH Item 198.1.

Thank you for allowing EAS, Inc. to provide ENTEK with professional analytical services. If you have any questions or require additional information or assistance, please feel free to contact me at the number above or e-mail [Lab@EASInc.com](mailto:Lab@EASInc.com).

Sincerely,

EASTERN ANALYTICAL SERVICES, INC.

A handwritten signature in black ink, appearing to read 'Kevin Stascavage', is written over a horizontal line.

Kevin Stascavage  
Microscopy Lab Manager

KS:om

Enclosures



# Eastern Analytical Services, Inc.

## Bulk Sample Results

RE: EAS Batch No. 1408121 - CPN 23031-71 - Architecture + - Queensboro CF

Date Collected : 10/02/2014  
 Collected By : Henry Uhlig  
 Date Received : 10/03/2014  
 Date Analyzed : 10/08-09/2014  
 Analyzed By : Kevin Stascavage  
 Signature :

Client: ENTEK  
 3 Agway Drive  
 Rensselaer, NY 12144

Analytical Method : EPA/600/R-93/116/NYS-DOH 198.1 (PLM)  
 NVLAP Lab No. 101646-0  
 NYS Lab No. 10851

Sample ID Number	100214HU08	100214HU09	100214HU14	100214HU15
Layer Number				
Lab ID Number	2317696	2317697	2317702	2317703
Sample Location	Roof G	Roof G	Roof B	Roof B
Sample Description	Gray Cementitious Coating on Parapet Wall	Gray Cementitious Coating on Parapet Wall	Gray Cementitious Coating on CMU Wall	Gray Cementitious Coating on CMU Wall
Method of Quantification	Visual Estimation	Visual Estimation	Visual Estimation	Visual Estimation
Appearance	Layered Homogenous Fibrous Color	No No No Gray/Black	No No No Gray/Beige	No No No Gray/Beige
Sample Treatment	Homogenized	Homogenized	Homogenized	Homogenized
Asbestos Content	% Amosite 0.0 % Chrysotile 0.0 % Other 0.0 % Total Asbestos 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
Other Fibrous Materials Present	% Fibrous Glass 0.0 % Cellulose 0.0 % Other 0.0 % Unidentified 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
Non-Fibrous Materials Present	% Silicates 15.0 % Carbonates 0.0 % Other 0.0 % Unidentified 85.0	20.0 0.0 0.0 80.0	15.0 0.0 0.0 85.0	15.0 0.0 0.0 85.0

Results Applicable To Those Items Tested. Report Cannot be Reproduced, Except Entirely, Without Written Approval of the Laboratory.  
 Liability Limited To Cost Of Analysis. This Report Must Not be Used by the Client to Claim Product Endorsement by NVLAP or Any Agency of the US Government.  
 These Results Can Not Be Used To Claim That NOB Items Tested Are Non-Asbestos Containing. Overall Lab Accuracy ± 17%.  
 AIHA Accreditation No. 100263 Rhode Island DOH No. AAL-072T3 Massachusetts DOL No. A A 000072 Connecticut DOH No. PH-0622 Maine DEP No. LA-024 Vermont DOH No. AAS-2095



Eastern Analytical Services, Inc.

Bulk Sample Results

RE: EAS Batch No. 1408121 - CPN 23031-71 - Architecture + - Queensboro CF

Date Collected : 10/02/2014
Collected By : Henry Uhlig
Date Received : 10/03/2014
Date Analyzed : 10/08-09/2014
Analyzed By : Kevin Stascavage
Signature :

Client: ENTEK
3 Agway Drive
Rensselaer, NY 12144

Analytical Method : EPA/600/R-93/116/NYS-DOH 198.1 (PLM)
NVLAP Lab No. 101646-0
NYS Lab No. 10851

Table with 5 columns: Sample ID Number, Layer Number, Lab ID Number, Sample Location, Sample Description, Method of Quantification, Appearance, Sample Treatment, Asbestos Content, Other Fibrous Materials Present, Non-Fibrous Materials Present. Rows include sample details for 100214HU05A, 100214HU05B, 100214HU06A, and 100214HU06B.

Results Applicable To Those Items Tested. Report Cannot be Reproduced, Except Entirely, Without Written Approval of the Laboratory. Liability Limited To Cost Of Analysis. This Report Must Not be Used by the Client to Claim Product Endorsement by NVLAP or Any Agency of the US Government. These Results Can Not Be Used To Claim That NOB Items Tested Are Non-Asbestos Containing. Overall Lab Accuracy ± 17%. AIHA Accreditation No. 100263 Rhode Island DOH No. AAL-072T3 Massachusetts DOL No. A A 000072 Connecticut DOH No. PH-0622 Maine DEP No. LA-024 Vermont DOH No. AAS-2095



# Eastern Analytical Services, Inc.

## Bulk Sample Results

RE: EAS Batch No. 1408121 - CPN 23031-71 - Architecture + - Queensboro CF

Date Collected : 10/02/2014  
 Collected By : Henry Uhlig  
 Date Received : 10/03/2014  
 Date Analyzed : 10/08-09/2014  
 Analyzed By : Kevin Stascavage  
 Signature :

Client: ENTEK  
 3 Agway Drive  
 Rensselaer, NY 12144

Analytical Method : EPA/600/R-93/116/NYS-DOH 198.1 (PLM)  
 NVLAP Lab No. 101646-0  
 NYS Lab No. 10851

Sample ID Number	100214HU07A	100214HU07B
Layer Number		
Lab ID Number	2318041	2318042
Sample Location	Roof G	Roof G

Sample Description	Hard Plaster Stucco Wall Finish	Plaster Scratch Coat
--------------------	------------------------------------	----------------------

Method of Quantification		Visual Estimation	Visual Estimation
Appearance	Layered	No	No
	Homogenous	Yes	Yes
	Fibrous	No	No
	Color	Gray	Gray

Sample Treatment		None	None
Asbestos	% Amosite	0.0	0.0
Content	% Chrysotile	0.0	0.0
	% Other	0.0	0.0
	% Total Asbestos	0.0	0.0
	Other Fibrous	% Fibrous Glass	0.0
Materials Present	% Cellulose	0.0	0.0
	% Other	0.0	0.0
	% Unidentified	0.0	0.0
	Non-Fibrous	% Silicates	40.0
Materials Present	% Carbonates	15.0	15.0
	% Other	0.0	0.0
	% Unidentified	45.0	10.0

Results Applicable To Those Items Tested. Report Cannot be Reproduced, Except Entirely, Without Written Approval of the Laboratory.  
 Liability Limited To Cost Of Analysis. This Report Must Not be Used by the Client to Claim Product Endorsement by NVLAP or Any Agency of the US Government.  
 These Results Can Not Be Used To Claim That NOB Items Tested Are Non-Asbestos Containing. Overall Lab Accuracy ± 17%.  
 AIHA Accreditation No. 100263 Rhode Island DOH No. AAL-072T3 Massachusetts DOL No. A A 000072 Connecticut DOH No. PH-0622 Maine DEP No. LA-024 Vermont DOH No. AAS-2095

**APPENDIX B**  
**Asbestos Bulk Samples, Polarized Light Microscopy/Non-Friable Organically  
Bound (PLM/NOB) Laboratory Results**



# Eastern Analytical Services, Inc.

Phone (914) 592-8380

4 Westchester Plaza  
Elmsford, New York 10523-1610  
<http://www.EASInc.com>

Fax (914) 592-8956

October 08, 2014

Mr. Henry Uhlig  
ENTEK  
3 Agway Drive  
Rensselaer, NY 12144

RE: EAS Batch No. 1408122 - CPN 23031-71 - Architecture + - Queensboro CF

Dear Mr. Uhlig:

Enclosed please find the laboratory results for the 8 bulk samples received by Eastern Analytical Services, Inc. October 03, 2014. The analysis was performed in accordance with NYS-DOH Item 198.6.

Thank you for allowing EAS, Inc. to provide ENTEK with professional analytical services. If you have any questions or require additional information or assistance, please feel free to contact me at the number above or e-mail [Lab@EASInc.com](mailto:Lab@EASInc.com).

Sincerely,

EASTERN ANALYTICAL SERVICES, INC.

A handwritten signature in black ink, appearing to read 'Kevin Stascavage', is written over a horizontal line.

Kevin Stascavage  
Microscopy Lab Manager

KS:om

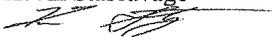
Enclosures



# Eastern Analytical Services, Inc.

## Bulk Sample Results

RE: EAS Batch No. 1408122 - CPN 23031-71 - Architecture + - Queensboro CF

Date Collected : 10/02/2014  
 Collected By : Henry Uhlig  
 Date Received : 10/03/2014  
 Date Analyzed : 10/07/2014  
 Analyzed By : Kevin Stascavage  
 Signature :   
 Analytical Method : NYS-DOH 198.6  
 NVLAP Lab No. 101646-0  
 NYS Lab No. 10851

Client ENTEK  
 3 Agway Drive  
 Rensselaer, NY 12144

Sample ID Number	100214HU01	100214HU02	100214HU03	100214HU04
Layer Number				
Lab ID Number	2317692	2317693	2317694	2317695
Sample Location	Roof G	Roof G	Roof G	Roof G
Sample Description	Black Bituminous Patch on Foam Duct Insulation	Black Bituminous Patch on Foam Duct Insulation	Yellow Foam Duct Adhesive	Yellow Foam Duct Adhesive
Analytical Method	Plm	Plm	Plm	Plm
Appearance				
Layered	No	No	Yes	Yes
Homogenous	Yes	Yes	No	No
Fibrous	No	No	Yes	Yes
Color	Black	Black	Black/Yellow	Black/Yellow
Asbestos Content				
% Amosite	0.0	0.0	0.0	0.0
% Chrysotile	0.0	4.0	0.0	0.0
% Other	0.0	0.0	0.0	0.0
% Total Asbestos	0.0	4.0	0.0	0.0
Other Materials Present				
% Organic	75.0	74.1	76.2	77.5
% Carbonates	1.0	2.1	10.7	8.7
% Other Inorganic	24.0	19.8	13.1	13.8

Results Applicable To Those Items Tested. Report Cannot be Reproduced, Except Entirely, Without Written Approval of the Laboratory.  
 Liability Limited To Cost Of Analysis. This Report Must Not be Used by the Client to Claim Product Endorsement by NVLAP or Any Agency of the US Government.  
 These Results Cannot Be Used To Claim That NOB Items Tested Are Non-Asbestos Containing (Unless "% Other Inorganic", As Reported Above, is Less Than One Percent).  
 This method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite.  
 AIHA Accreditation No. 100263 Rhode Island DOH No. AAL-072T3 Massachusetts DOL No. A A 000072 Connecticut DOH No. PH-0622 Maine DEP No. LA-024 Vermont DOH No. AAS-2095



Eastern Analytical Services, Inc.

Bulk Sample Results

RE: EAS Batch No. 1408122 - CPN 23031-71 - Architecture + - Queensboro CF

Date Collected : 10/02/2014
Collected By : Henry Uhlig
Date Received : 10/03/2014
Date Analyzed : 10/07/2014
Analyzed By : Kevin Stascavage
Signature :
Analytical Method : NYS-DOH 198.6
NVLAP Lab No. 101646-0
NYS Lab No. 10851
Client ENTEK
3 Agway Drive
Rensselaer, NY 12144

Table with 5 columns: Sample ID Number, Layer Number, Lab ID Number, Sample Location. Rows include 100214HU10, 100214HU11, 100214HU12, 100214HU13.

Table with 5 columns: Sample Description, Gray Caulk on AHU 1 Seams, Gray Caulk on AHU 1 Seams, Gray Caulk on AHU 2 Seams, Gray Caulk on AHU 2 Seams.

Table with 5 columns: Analytical Method, Appearance (Layered, Homogenous, Fibrous, Color), Plm, No, Yes, No, Gray/Black.

Table with 5 columns: Asbestos Content (% Amosite, % Chrysotile, % Other, % Total Asbestos), Other Materials Present (% Organic, % Carbonates, % Other Inorganic), 0.0, 0.0, 0.0, 0.0, 35.4, 47.6, 17.0, 35.5, 47.0, 17.5, 30.5, 61.1, 8.4, 31.6, 61.4, 7.0.

Results Applicable To Those Items Tested. Report Cannot be Reproduced, Except Entirely, Without Written Approval of the Laboratory. Liability Limited To Cost Of Analysis. This Report Must Not be Used by the Client to Claim Product Endorsement by NVLAP or Any Agency of the US Government.

## **APPENDIX C**

**Asbestos Bulk Samples, Transmission Electron Microscopy/Non-Friable Organically Bound  
(TEM/NOB) Laboratory Results**



# Eastern Analytical Services, Inc.

Phone (914) 592-8380

4 Westchester Plaza  
Elmsford, New York 10523-1610  
<http://www.EASinc.com>

Fax (914) 592-8956

October 09, 2014

Mr. Henry Uhlig  
ENTEK  
3 Agway Drive  
Rensselaer, NY 12144

RE: EAS Batch No. 1408123 - CPN 23031-71 - Architecture + - Queensboro CF

Dear Mr. Uhlig:

Enclosed please find the laboratory results for the 6 bulk samples received by Eastern Analytical Services, Inc. October 03, 2014. The analysis was performed in accordance with NYS-DOH Item 198.4.

Thank you for allowing EAS, Inc. to provide ENTEK with professional analytical services. If you have any questions or require additional information or assistance, please feel free to contact me at the number above or e-mail [Lab@EASInc.com](mailto:Lab@EASInc.com).

Sincerely,

EASTERN ANALYTICAL SERVICES, INC.

A handwritten signature in black ink, appearing to read 'Kevin Stascavage', is written over a horizontal line.

Kevin Stascavage  
Microscopy Lab Manager

KS:om

Enclosures



Eastern Analytical Services, Inc.

Bulk Sample Results

RE: EAS Batch No. 1408123 - CPN 23031-71 - Architecture + - Queensboro CF

Date Collected : 10/02/2014
Collected By : Henry Uhlig
Date Received : 10/03/2014
Date Analyzed : 10/09/2014
Analyzed By : Ghayath Elias
Signature :
Analytical Method : NYS-DOH 198.4
NVLAP Lab No. 101646-0
NYS Lab No. 10851

Client ENTEK
3 Agway Drive
Rensselaer, NY 12144

Table with 5 columns: Sample ID Number, Layer Number, Lab ID Number, Sample Location. Rows include 100214HU03, 100214HU04, 100214HU10, 100214HU11.

Table with 5 columns: Sample Description, Yellow Foam Duct Adhesive, Yellow Foam Duct Adhesive, Gray Caulk on AHU 1 Seams, Gray Caulk on AHU 1 Seams.

Table with 5 columns: Analytical Method, Appearance (Layered, Homogenous, Fibrous, Color), Tem, Yes/No, Tem, Yes/No, Tem, Yes/No, Tem, Yes/No.

Table with 5 columns: Asbestos Content (% Amosite, % Chrysotile, % Other, % Total Asbestos), 0.0, 0.0, 0.0, 0.0.

Table with 5 columns: Other Materials Present (% Organic, % Carbonates, % Other Inorganic), 76.2, 77.5, 35.4, 35.5.

Results Applicable To Those Items Tested. Report Cannot be Reproduced, Except Entirely, Without Written Approval of the Laboratory. Liability Limited To Cost Of Analysis. This Report Must Not be Used by the Client to Claim Product Endorsement by NVLAP or Any Agency of the US Government.



Eastern Analytical Services, Inc.

Bulk Sample Results

RE: EAS Batch No. 1408123 - CPN 23031-71 - Architecture + - Queensboro CF

Date Collected : 10/02/2014
Collected By : Henry Uhlig
Date Received : 10/03/2014
Date Analyzed : 10/09/2014
Analyzed By : Ghayath Elias
Signature :
Analytical Method : NYS-DOH 198.4
NVLAP Lab No. 101646-0
NYS Lab No. 10851

Client ENTEK
3 Agway Drive
Rensselaer, NY 12144

Sample ID Number 100214HU12 100214HU13
Layer Number
Lab ID Number 2317700 2317701
Sample Location Roof G Roof G

Sample Description Gray Caulk on AHU 2 Seams Gray Caulk on AHU 2 Seams

Analytical Method Tem Tem
Appearance Layered No No
Homogenous Yes Yes
Fibrous No No
Color Gray/Black Gray/Black

Asbestos % Amosite 0.0 0.0
Content % Chrysotile 0.0 0.0
% Other 0.0 0.0
% Total Asbestos 0.0 0.0
Other % Organic 30.5 31.6
Materials % Carbonates 61.1 61.4
Present % Other Inorganic 8.4 7.0

Results Applicable To Those Items Tested. Report Cannot be Reproduced, Except Entirely, Without Written Approval of the Laboratory.
Liability Limited To Cost Of Analysis. This Report Must Not be Used by the Client to Claim Product Endorsement by NVLAP or Any Agency of the US Government.
AIHA Accreditation No. 100263 Rhode Island DOH No. AAL-072T3 Massachusetts DOL No. A A 000072 Connecticut DOH No. PH-0622 Maine DEP No. LA-024 Vermont DOH No. AAS-2095

**APPENDIX D**  
**Lead Paint Bulk Samples**  
**Atomic Absorption Spectrometry (AAS) Laboratory Results**



# Eastern Analytical Services, Inc.

Phone (914) 592-8380

4 Westchester Plaza  
Elmsford, New York 10523-1610  
<http://www.EASInc.com>

Fax (914) 592-8956

October 09, 2014

Mr. Henry Uhlig  
ENTEK  
3 Agway Drive  
Rensselaer, NY 12144

RE: EAS Batch No. 1408124 - CPN 23031-71 - Architecture + - Queensboro CF

Dear Mr. Uhlig:

Enclosed please find the laboratory results for the 9 bulk samples received by Eastern Analytical Services, Inc. October 03, 2014. The analysis was performed in accordance with EPA 3050B/7000B.

Thank you for allowing EAS, Inc. to provide ENTEK with professional analytical services. If you have any questions or require additional information or assistance, please feel free to contact me at the number above or e-mail [Lab@EASInc.com](mailto:Lab@EASInc.com).

Sincerely,

EASTERN ANALYTICAL SERVICES, INC.

A handwritten signature in black ink, appearing to read 'Paul Stascavage', is written over a horizontal line.

Paul Stascavage  
Laboratory Director

PS:om

Enclosures



Eastern Analytical Services, Inc.

Bulk Sample Report

RE: EAS Batch No. 1408124 - CPN 23031-71 - Architecture + - Queensboro CF

Date Collected: 10/02/2014
Collected By: Henry Uhlig
Date Received: 10/03/2014
Date Analyzed: 10/06/2014
Analyzed By: Everton Byron Barrett
Signature: [Signature]
Analyte: Pb Bulk
Analytical Method EPA 3050B/7000B
NYS Lab Number: 10851

Client: ENTEK
3 Agway Drive
Rensselaer, NY 12144

Table with 4 columns: Sample ID# / Lab ID#, Sample Location, Sample Notes, Concentration. Contains 8 rows of data for various roof samples.

BDL = Below Detectable Limits Reporting Limit = 0.3 ppm
Liability Limited to Cost of Analysis
Results are Not Blank Corrected All QC within Control Limits Unless Otherwise Indicated Soil Samples Reported on Dry Weight Basis - Paint Samples Reported as Received
AIHA Accreditation No. 100263 Rhode Island DOH No. AAL-072T3 Massachusetts DOL No. A A 000072 Connecticut DOH No. PH-0622 Maine DEP No. LA-024 Vermont DOH No. AAS-2095



Eastern Analytical Services, Inc.

Bulk Sample Report

RE: EAS Batch No. 1408124 - CPN 23031-71 - Architecture + - Queensboro CF

Date Collected: 10/02/2014
Collected By: Henry Uhlig
Date Received: 10/03/2014
Date Analyzed: 10/06/2014
Analyzed By: Everton Byron Barrett
Signature:
Analyte: Pb Bulk
Analytical Method EPA 3050B/7000B
NYS Lab Number: 10851

Client: ENTEK
3 Agway Drive
Rensselaer, NY 12144

Table with 4 columns: Sample ID# / Lab ID#, Sample Location, Sample Notes, Concentration. Row 1: 100214HU09-L 2317665, Roof B - On CMU Wall, Cream Paint, 1448.1 mg/kg 0.14 %

BDL = Below Detectable Limits Reporting Limit = 0.3 ppm
Liability Limited to Cost of Analysis
Results Applicable to Those Items Tested Results are Not Blank Corrected All QC within Control Limits Unless Otherwise Indicated Soil Samples Reported on Dry Weight Basis - Paint Samples Reported as Received
AIHA Accreditation No. 100263 Rhode Island DOH No. AAL-072T3 Massachusetts DOL No. A A 000072 Connecticut DOH No. PH-0622 Maine DEP No. LA-024 Vermont DOH No. AAS-2095

**APPENDIX E**  
**Polychlorinated Biphenyl's-Containing Materials (PCB's) Bulk Samples**  
**Laboratory Results**



***Pace Analytical e-Report***

**Report prepared for:**  
ENTEK ENVIRONMENTAL  
3 AGWAY DR  
RENSSELAER, NY 12144  
CONTACT: HENRY UHLIG

-----  
**Project ID:** ARCH/QUEENSBORO 23031-71 CORRECTIONAL  
**Sampling Date(s):** October 02, 2014  
**Lab Report ID:** 14100133  
**Client Service Contact:** Chelsea Farmer (518) 346-4592 ext. 3843  
-----

**Analysis Included:**  
PCB Analysis

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report. Pace Analytical is responsible only for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

Dan Pfalzer  
Laboratory Director



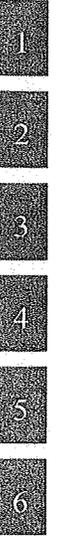
Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337),  
Massachusetts (M-NY906), Virginia (1884)

Pace Analytical Services, Inc. | 2190 Technology Drive | Schenectady, NY 12308  
Phone: 518.346.4592 | internet: [www.pacelabs.com](http://www.pacelabs.com)

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# Table of Contents

Section 1: CASE NARRATIVE .....	4
Section 2: QUALIFIERS .....	6
Section 3: SAMPLE CHAIN OF CUSTODY .....	8
Section 4: SAMPLE RECEIPT .....	11
Section 5: GC - PCB .....	13
Section 6: Quality Control Samples (Lab) .....	16



# CASE NARRATIVE

October 15, 2014

CASE NARRATIVE

This data package (SDG ID: 14100133) consists of 2 caulk samples received on 10/02/2014. The samples are from Project Name: ARCH./QUEENSBORO 23031-71 CORRECTIONAL.

This sample delivery group consists of the following samples:

<u>Lab Sample ID</u>	<u>Client ID</u>	<u>Collection Date</u>
AR37006	100214HU01-P	10/02/2014
AR37007	100214HU02-P	10/02/2014



Sample Delivery and Receipt Conditions

- (1.) Lab provided sample pickup service on 10/02/2014.
- (2.) All samples were received at the laboratory intact and within holding times.
- (3.) All samples were received at the laboratory properly preserved, if applicable.

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by method SW-846 8082A. Samples were extracted by Soxhlet Extraction Method (EPA - Method 3540C). The following technical and administrative items were noted for the analysis:

- (1.) The concentration results for Aroclor 1254 were flagged (AF) to denote that an altered Aroclor pattern was observed. Please see Form for details.

Respectfully submitted,

Chelsea L. Farmer  
Project Manager

# QUALIFIERS

## Qualifier Definitions

### **Organic Laboratory Qualifiers**

B - Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.

D - Surrogate recovery not evaluated against control limits due to sample dilution.

E - Denotes analyte concentration exceeded calibration range of instrument. Sample could not be re-analyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

P - Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.

U - Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

Z - Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.

\* - Value not within control limits.

### **Inorganic Laboratory Qualifiers**

B - Denotes analyte observed in associated method blank or digestion blank. Analyte concentration should be considered as estimated.

E - Denotes analyte concentration exceeded calibration range of instrument. Sample could not be re-analyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

U - Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

\* - Value not within control limits.

2

# SAMPLE CHAIN OF CUSTODY

3

**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<14100133P1>



**Section A**  
Required Client Information:  
Company: **ENTEK**  
Address: **3 AGWAY DR**  
Phone: **ROSENBAUM NY**  
Email To: **Uhlig@entek-env.com**  
Fax:

**Section B**  
Required Project Information:  
Report To: **EMTEK**  
Copy To:  
Purchase Order No.:  
Project Name: **QUEENSBORO CR**  
Project Number: **23031-71**

**Section C**  
Invoice Information:  
Attention: **BUB UHLIG**  
Company Name: **EMTEK**  
Address:  
Pace Quote Reference:  
Pace Project Manager:  
Pace Profile #:  
REGULATORY AGENCY  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER  
Site Location: **NY**  
STATE:

ITEM #	Section D Required Client Information	Matrix Codes MATRIX CODE	SAMPLE ID (A-Z, 0-9 / -)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test	Requested Analysis Filtered (Y/N)	
					COMPOSITE START	COMPOSITE END/GRAB					Temp in °C	Residual Chlorine (Y/N)
1		Drinking Water Water Waste Water Product Soil/Solid	1002144u01-P									
2		Oil Wipe Air Tissue Other	1002144u02-P									
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												

**Section E**  
Relinquished By / Affiliation: **Henry Uhlig** DATE: **10/1/14** TIME: **4:30p**  
Signature: *[Signature]*

**Section F**  
Additional Comments: **10/3/14 8:25**  
**10/3/14 9:00 J. Bentley (PACE)**

**Section G**  
Sample Conditions: **10/3/14**

**Section H**  
Received on: **10/3/14** Temp in °C: **2.0**  
Ice (Y/N): **Y**  
Custody Sealed Cooler (Y/N): **N**  
Samples Intact (Y/N): **Y**

**Section I**  
Pace Project No./ Lab I.D.: **AR3700G**  
**AR3700F**

**Section J**  
SAMPLER NAME AND SIGNATURE  
PRINT Name of SAMPLER: **HENRY UHLIG**  
SIGNATURE of SAMPLER: *[Signature]*  
DATE Signed (MM/DD/YYYY): **10/2/14**

ORIGINAL



# Sample Condition Upon Receipt

<14100133P2>



141001332

COURIER: FedEx  UPS  Client  Pace  Other

TRACKING # N/A

PACKING MATERIAL: Bubble Wrap  Bubble Bags  None  CUSTODY SEAL PRESENT: Yes  No  INTACT: Yes  No  N/A

THERMOMETER USED: #164  IR Gun 03  #122087967  ICE USED: Wet  Blue  None

BIOLOGICAL TISSUE IS FROZEN: Yes  No  COOLER TEMPERATURE (°C): 2.0

Temp should be above freezing to 6°C

COMMENTS:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Sampler Name / Signature on COC:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Sufficient Volume:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Correct Containers Used:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
- Pace Containers Used:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Containers Intact:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Filtered volume received for Dissolved tests:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> N/A
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
- Includes date/time/ID/Analysis	<input type="checkbox"/> Yes	<input type="checkbox"/> No
All containers needing preservation have been checked:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> N/A
All containers needing preservation are in compliance with EPA recommendation:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> N/A
- Exceptions that are not checked: VOA	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> N/A
Trip Blank Present:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> N/A
Trip Blank Custody Seals Present:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> N/A
Pace Trip Blank Lot #:	<u>N/A</u>	<input type="checkbox"/> No

Initial when completed: N/A Lot # of added preservative: N/A

Line-Out (Includes Copying Shipping Documents and verifying sample pH): PS 10/6/14

Log In (Includes notifying PM of any discrepancies and documenting in LIMS): PS 10/3/14

Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook): PS 10/6/14

Sample Receipt form filled in: PS

LOGIN\_SCUR\_FORM\_052914\_Rev01\_01

# SAMPLE RECEIPT





# SAMPLE RECEIPT REPORT

## 14100133

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

CLIENT: ENTEK ENVIRONMENTAL  
 PROJECT: ARCH./QUEENSBORO 23031-71 CORRECTIONAL  
 LRF: 14100133  
 REPORT: ANALYTICAL REPORT  
 EDD: YES  
 LRF TAT: 2 WEEK

RECEIVED DATE: 10/02/2014 09:00  
 SHIPPED VIA: PICK UP <sup>1,2</sup>  
 SHIPPING ID:  
 NUMBER OF COOLERS: 1  
 CUSTODY SEAL INTACT: NA  
 COOLER STATUS: CHILLED  
 TEMPERATURE(S): 5.0 °C

SAMPLE SEALS INTACT: NA  
 SAMPLES PRESERVED PER METHOD GUIDANCE: YES  
 SAMPLES REC'D IN HOLDTIME: YES  
 DISPOSAL: BY LAB (45 DAYS)  
 COC DISCREPANCY: NO

**COMMENTS:**  
 NO SAMPLE DATE ON COC OR CONTAINERS

CLIENT ID (LAB ID)	TAT-DUE Date <sup>4</sup>	DATE-TIME SAMPLED	MATRIX	METHOD	TEST DESCRIPTION	QC REQUEST
100214HU01-P (AR37006)	2 WEEK 10-16-14	10/02/2014	Caulk	EPA 8082A	PCB Analysis	
100214HU02-P (AR37007)	2 WEEK 10-16-14	10/02/2014	Caulk	EPA 8082A	PCB Analysis	

<sup>1</sup>The pH preservation check of Oil and Grease (Method 1664) is performed as soon as possible after sample receipt and may not be included in this report.  
<sup>2</sup>The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.  
<sup>3</sup>Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it is not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.  
<sup>4</sup>Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made.  
 The due date represents the date the lab report is expected to be completed on or before 5:00 pm (EST) for the date specified.  
<sup>5</sup>All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice. Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.

### Reporting Parameters and Lists

- EPA 8082A - PCB Analysis - (ug/g)
- Aroclor 1016
  - Aroclor 1221
  - Aroclor 1232
  - Aroclor 1242
  - Aroclor 1248
  - Aroclor 1254
  - Aroclor 1260
  - Aroclor 1262
  - Aroclor 1268
  - Total PCB Amount > RL

# GC - PCB

5



**Analytical Sample Results**

**Job Number:** 14100133

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

<b>Client:</b> ENTEK ENVIRONMENTAL	<b>Collection Date:</b> 10/02/2014
<b>Project:</b> ARCH./QUEENSBORO 23031-71 CORRECTIONAL	<b>Sample Matrix:</b> CAULK
<b>Client Sample ID:</b> 100214HU01-P	<b>Received Date:</b> 10/02/2014 09:00
<b>Lab Sample ID:</b> 14100133-01 (AR37006)	<b>Percent Solid:</b> N/A

Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC10F-1230-17	SW-846 8082A (PCB)	10/08/2014 14:35	MCA	NA	NA	Phenomenex, Zebtron ZB-IMS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1: 28858	EPA 3540C	10/07/2014 14:05	MH	1.15 g	25.0 mL	NA

Analyte	CAS No.	Result (ug/g)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.436	1.00	U	GC10F-1230-17
Aroclor 1221	11104-28-2	ND	0.436	1.00	U	GC10F-1230-17
Aroclor 1232	11141-16-5	ND	0.436	1.00	U	GC10F-1230-17
Aroclor 1242	53469-21-9	ND	0.436	1.00	U	GC10F-1230-17
Aroclor 1248	12672-29-6	ND	0.436	1.00	U	GC10F-1230-17
Aroclor 1254	11097-69-1	1.58	0.436	1.00	AF	GC10F-1230-17
Aroclor 1260	11096-82-5	ND	0.436	1.00	U	GC10F-1230-17
Aroclor 1262	37324-23-5	ND	0.436	1.00	U	GC10F-1230-17
Aroclor 1268	11100-14-4	ND	0.436	1.00	U	GC10F-1230-17
Total PCB Amount > RL	1336-36-3	1.58		1.00		GC10F-1230-17

Surrogate	CAS No.	% Recovery	Limits (%)	Q <sup>1</sup>	File ID
Tetrachloro-meta-xylene	877-09-8	74.8	60.0-140		GC10F-1230-17
Decachlorobiphenyl	2051-24-3	103	60.0-140		GC10F-1230-17

<sup>1</sup>Qualifier column where '\*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.  
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.  
 AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.



**Analytical Sample Results**

**Job Number:** 14100133

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**Client:** ENTEK ENVIRONMENTAL  
**Project:** ARCH./QUEENSBORO 23031-71 CORRECTIONAL  
**Client Sample ID:** 100214HU02-P  
**Lab Sample ID:** 14100133-02 (AR37007)

**Collection Date:** 10/02/2014  
**Sample Matrix:** CAULK  
**Received Date:** 10/02/2014 09:00  
**Percent Solid:** N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC10F-1230-18	SW-846 8082A (PCB)	10/08/2014 14:48	MCA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	28858	EPA 3540C	10/07/2014 14:06	MH	1.05 g	25.0 mL	NA

Analyte	CAS No.	Result (ug/g)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.474	1.00	U	GC10F-1230-18
Aroclor 1221	11104-28-2	ND	0.474	1.00	U	GC10F-1230-18
Aroclor 1232	11141-16-5	ND	0.474	1.00	U	GC10F-1230-18
Aroclor 1242	53469-21-9	ND	0.474	1.00	U	GC10F-1230-18
Aroclor 1248	12672-29-6	ND	0.474	1.00	U	GC10F-1230-18
Aroclor 1254	11097-69-1	0.722	0.474	1.00	AF	GC10F-1230-18
Aroclor 1260	11096-82-5	ND	0.474	1.00	U	GC10F-1230-18
Aroclor 1262	37324-23-5	ND	0.474	1.00	U	GC10F-1230-18
Aroclor 1268	11100-14-4	ND	0.474	1.00	U	GC10F-1230-18
Total PCB Amount > RL	1336-36-3	0.722		1.00		GC10F-1230-18

Surrogate	CAS No.	% Recovery	Limits (%)	Q <sup>1</sup>	File ID
Tetrachloro-meta-xylene	877-09-8	73.2	60.0-140		GC10F-1230-18
Decachlorobiphenyl	2051-24-3	95.8	60.0-140		GC10F-1230-18

<sup>1</sup>Qualifier column where "M" denotes value outside the control limits or "D" denotes value was diluted out.  
 ND: Denotes analyte not detected at a concentration greater than the PQL.  
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.  
 AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

# Quality Control Samples (Lab)

6



**Quality Control Results**  
**Method Blank**  
**Job Number: 14100133**

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

<b>Client:</b> ENTEK ENVIRONMENTAL	<b>Collection Date:</b> N/A
<b>Project:</b> ARCH./QUEENSBORO 23031-71 CORRECTIONAL	<b>Sample Matrix:</b> CAULK
<b>Client Sample ID:</b> Method Blank (AR37006B)	<b>Received Date:</b> N/A
<b>Lab Sample ID:</b> PBLK-08	<b>Percent Solid:</b> N/A

Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC10F-1230-12 SW-846 8082A (PCB)	10/08/2014 13:32	MCA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	28858 EPA 3540C	10/07/2014 14:04	MH	10.2 g	25.0 mL	NA

Analyte	CAS No.	Result (ug/g)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0500	1.00	U	GC10F-1230-12
Aroclor 1221	11104-28-2	ND	0.0500	1.00	U	GC10F-1230-12
Aroclor 1232	11141-16-5	ND	0.0500	1.00	U	GC10F-1230-12
Aroclor 1242	53469-21-9	ND	0.0500	1.00	U	GC10F-1230-12
Aroclor 1248	12672-29-6	ND	0.0500	1.00	U	GC10F-1230-12
Aroclor 1254	11097-69-1	ND	0.0500	1.00	U	GC10F-1230-12
Aroclor 1260	11096-82-5	ND	0.0500	1.00	U	GC10F-1230-12
Aroclor 1262	37324-23-5	ND	0.0500	1.00	U	GC10F-1230-12
Aroclor 1268	11100-14-4	ND	0.0500	1.00	U	GC10F-1230-12
Total PCB Amount > RL	1336-36-3	ND		1.00	U	GC10F-1230-12

Surrogate	CAS No.	% Recovery	Limits (%)	Q <sup>1</sup>	File ID
Tetrachloro-meta-xylene	877-09-8	74.0	60.0-140		GC10F-1230-12
Decachlorobiphenyl	2051-24-3	104	60.0-140		GC10F-1230-12

<sup>1</sup>Qualifier column where '\*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.  
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



**Quality Control Results  
Lab Control Sample (LCS)  
Job Number: 14100133**

**Pace Analytical Services, Inc.**  
2190 Technology Drive  
Schenectady, NY 12308  
Phone: 518.346.4592  
Fax: 518.381.6055

<b>Client:</b> ENTEK ENVIRONMENTAL	<b>Collection Date:</b> N/A
<b>Project:</b> ARCH./QUEENSBORO 23031-71 CORRECTIONAL	<b>Sample Matrix:</b> CAULK
<b>Client Sample ID:</b> Lab Control Sample (AR37006L)	<b>Received Date:</b> N/A
<b>Lab Sample ID:</b> LCS-08	<b>Percent Solid:</b> N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC10F-1230-13	SW-846 8082A (PCB)	10/08/2014 13:45	MCA	NA	NA	Phenomenex, Zebtron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	28858	EPA 3540C	10/07/2014 14:04	MH	10.6 g	25.0 mL	NA

Analyte Spiked	CAS No.	Added (ug/g)	LCS (ug/g)	LCS % Rec.	Q <sup>1</sup>	Limits (%)
Aroclor 1254	11097-69-1	1.18	1.09	92.5		70.0-130

<sup>1</sup>Qualifier column where "\*" denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q <sup>1</sup>	File ID
Tetrachloro-meta-xylene	877-09-8	77.7	60.0-140		GC10F-1230-13
Decachlorobiphenyl	2051-24-3	99.6	60.0-140		GC10F-1230-13

<sup>1</sup>Qualifier column where "\*" denotes value outside the control limits or "D" denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

6