PRE-DEMOLITION ENVIRONMENTAL ASSESSMENT REPORT

INVESTIGATION FOR**:**	Steve Maravelias Paulus, Sokolowski & Sartor, LLC 1433 State Highway 34, Suite A Wall, NJ 07747
SITE INVESTIGATED:	New Jersey City University 251 West Side Avenue Jersey City, NJ 07305
ASSESSMENT BY:	Omega Environmental Services, Inc. 280 Huyler Street South Hackensack, NJ 07606
INVESTIGATION CONDUCTED:	October 4 and 5, 2017
DATE OF REPORT:	October 20, 2017
REPORT PREPARED BY:	David Ekstrand
REPORT REVIEWED BY:	Geiser Fajardo, Senior Project Manager

(Omega Project # 17-1279)

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EXECUTIVE SUMMARY:

Omega Environmental Services was retained by Paulus, Sokolowski & Sartor (PS&S), LLC to conduct a hazardous/regulated material investigation of the New Jersey City University building located at 251 West Side Avenue, Jersey City, NJ 07305.

At the time of investigation, the building was occupied.

The inspection included a visual assessment, and representative sampling/analysis of suspect Asbestos Containing Materials (ACM), Lead Based Paint (LBP), and PCBs (in caulking and paint). This inspection also included a visual inspection for other possible suspect PCB containing materials, mercury containing materials, hazardous material storage, and other areas of concern.

A few items of concern were noted, as summarized below, and delineated further in this report.

Previous Survey and Decontamination Work:

No documentation of any previous work performed in the subject area was provided.

Summary of Findings:

The following summarizes the hazardous or regulated materials identified:

251 West Side Avenue, Jersey City, NJ 07305 Pre-Demolition Hazardous Material Summary			
Parameter Investigated	**Suspected Positive Materials**	**Estimated Total Quantity of Material**	**Recommended Action**
Asbestos (ACM)	Parapet wall flashing	1440 SF	Abate/removal by licensed asbestos Contractor
	Pitch pockets	24 SF	
	Caulking	80 LF	
	Transite pipes	Approx. 172 SF (concealed transite pipes exist)	
	Transite panels	18 SF (assumed)	
	Duct vibration damper	30 SF	
	Door caulking	(1 door) 30”x80”	
	Door insulation	(7 doors) 80”x30”	
	Fittings	49 fittings (concealed fittings exist)	
	TSI pipe insulation	204 LF (concealed TSI exists)	
	12x12 floor tiles & associated mastic	1386 SF (per 2003 report)	
	Exterior window caulking (around windows)	Throughout (assumed)	
	Exterior window glazing	Throughout (assumed)	
Lead Based Paint (LBP)	Wall corner guards	Not quantified	Conduct demolition activities in accordance with OSHA *Lead in Construction Standard*.
	Elevator door		
	Wall strings		
	Door molding		
	Column		
	Pipe		
	Stairs		
PCBs (other than in paint)	Fluorescent light ballasts	277 ballasts	Remove from fixture and dispose of as PCB Bulk product Waste.
	Transformers	None noted on site	None

251 West Side Avenue, Jersey City, NJ 07305 Pre-Demolition Hazardous Material Summary			
Parameter Investigated	**Suspected Positive Materials**	**Estimated Total Quantity of Material**	**Recommended Action**
	Caulking	N/A	None Detected for PCBs
PCBs, Chromium in Paint	Low levels of PCBs and Chromium in paint identified in three paint samples	Not quantified	Conduct demolition activities in accordance with OSHA *Lead in Construction Standard*.
Mercury	Fluorescent light bulbs	291 bulbs	Remove and dispose of as mercury containing universal waste.
	Thermostats, timers, misc.	No thermostat identified	Remove and dispose of any suspect mercury containing equipment.
	High Intensity Floodlights	Four noted in shop	Remove and dispose of as Universal Waste
Chemical Storage/tanks	Drums, tanks, significant chemical storage, ASTs.	Approximately 910 gallons of storage of various auto repair related fluids in 20-gallon to 250-gallon containers.	Remove and dispose of all fluids and containers
	USTs	No indications of an active or out of service UST noted	None
	Misc. paints, solvents, adhesives, small misc. fluids	Approximately 600 gallons of paints, enamel, stain and misc. fluids in containers ranging from spray cans to 1-gallons in paint room	Remove and dispose of all fluids and containers
	Staining	None observed	None
	Batteries	None observed	N/A
Biological Concerns (mold, bird feces, sewage)	Water damage/mold growth	None noted	N/A
Other/Miscellaneous	Boiler Systems	None identified	None

251 West Side Avenue, Jersey City, NJ 07305 Pre-Demolition Hazardous Material Summary			
Parameter Investigated	**Suspected Positive Materials**	**Estimated Total Quantity of Material**	**Recommended Action**
	Refrigerant Systems	Six rooftop split units, 2 household refrigerators, 2 chilled water fountains, 1 soda machine.	Drain refrigerant prior to demolition of units
	Compressor Systems	None identified	None

1 ASBESTOS SURVEY:

1.1 Summary:

Omega Environmental Services, Inc. (Omega) was been retained by Paulus, Sokolowski & Sartor, LLC to conduct an asbestos survey of New Jersey City University 251 West Side Avenue Jersey City, NJ 07305 to confirm the presence/absence of accessible asbestos containing materials (ACM).

Notes:

- Concealed materials may exist in walls/ceilings/chase assemblies.

1.1.1 ACM identified:

The following materials were classified as regulated ACM (asbestos at concentrations above 1%):

LOCATION	MATERIAL DESCRIPTION	ASSESSED CONDITION	ESTIMATED QUANTITY* (square/linear feet)
Roof	Pitch Pockets	No Visible Damage	Approx. 24 SF
Roof	Parapet Wall Flashing	No Visible Damage	Approx. 1200 SF
Roof Entrance (Base)	Parapet Wall Flashing	No Visible Damage	Approx. 120 SF
Roof Entrance (Top)	Parapet Wall Flashing	No Visible Damage	Approx.120 SF
Roof Entrance Door	Caulking	No Visible Damage	(1 door) 30”x80”
Roof (Base And Top)	Caulking	No Visible Damage	Approx. 80 LF
Roof Vents	Transite Pipes	Damaged	Approx. 78 LF
2nd Floor Warehouse Cage	Transite Pipes	No Visible Damage	Approx. 28 LF (concealed)
2nd Floor Warehouse Hall	Transite Pipes	No Visible Damage	Approx. 4 LF
2nd Floor Warehouse Hall	Duct Vibration Damper	No Visible Damage	(3) Approx. 30 SF (Assumed)
2nd Floor 208 Conference Room	Transite Pipes	No Visible Damage	Approx. 30 LF (concealed)
2nd Floor Locker Room	Transite Pipes	No Visible Damage	Approx. 2 LF
2nd Floor Bathrooms	Tsi Pipe Insulation And Fittings	N/A	Not quantified (concealed inside walls)
2nd Floor 204 Construction Office	Transite Pipes	No Visible Damage	Approx. 4 LF
2nd Floor Room 204A	12x12 White Floor Tile	No Visible Damage	Approx. 330 SF (assumed)
Exterior	Glazing	Significantly Damaged	Not quantified – throughout (assumed)
Exterior	Caulking (Around Windows)	Significantly Damaged	Not quantified – throughout (assumed)

LOCATION	MATERIAL DESCRIPTION	ASSESSED CONDITION	ESTIMATED QUANTITY* (square/linear feet)
2nd Floor Entrance	Door	No Visible Damage	(1 door) 80"x30" (assumed)
1st Floor Entrance	Doors	No Visible Damage	(6 doors) 80"x30" (assumed)
1st Floor Room 101 Above Ceiling	3'x3' Transite Panels	No Visible Damage	(2 panels) Approx. 18 SF (assumed)
1st Floor Room 101	Transite Pipes (Vents)	No Visible Damage	(2 vents) Approx. 10 SF
1st Floor Room 104A Locker Room	TSI Pipe Insulation	Damaged	Approx. 44 LF
1st Floor Room 104A Locker Room	Fittings	Damaged	4 each
1st Floor Room 104A-2 Bathroom	TSI pipe insulation	Damaged	Approx. 100 LF
1st Floor Room 104A-2 Bathroom	Fittings	Damaged	35 each
1st Floor Room 104 Dining Room	TSI pipe insulation	Damaged	Approx. 20 LF
1st Floor Room 104 Dining Room	Fittings	Damaged	6 each
1st Floor Room 104 Dining Room	12x12 Grey Floor Tile & Associated Mastic	No Visible Damage	Approx. 276 SF (as per 2003 report)
1st Floor Room 103	12x12 Dark Grey Floor Tile & Associated Mastic	No Visible Damage	Approx. 160 SF (as per 2003 report)
1st Floor Room 102	12x12 Dark Grey Floor Tile & Associated Mastic	No Visible Damage	Approx. 180 SF (as per 2003 report)
1st Floor Room 104A	12x12 Dark Grey Floor Tile & Associated Mastic	No Visible Damage	Approx.350 SF (as per 2003 report)
1st Floor Room 105	12x12 Dark Grey Floor Tile & Associated Mastic	No Visible Damage	Approx. 90 SF (as per 2003 report)
1st Floor Garage	TSI Pipe Insulation	No Visible Damage	Approx. 40 LF
1st Floor 108 Garage	Fittings	No Visible Damage	4 each
1st Floor 108 Garage	Transite Pipe Vents	No Visible Damage	(2 vents) Approx. 16 LF

*Since asbestos materials potentially continue through adjoining areas and/or layers, final asbestos abatement quantitates scope have to be determined in the field when project details are confirmed.

1.2 Scope of Work:

Omega conducted pre-demolition asbestos survey of New Jersey City University 251 West Side Avenue Jersey City, NJ 07305 such that asbestos containing materials (ACM) could be identified and abated prior to the onset of potential renovation activities as per *EPA NESHAPS, OSHA, and NJ DOL* requirements.

1.2.1 Materials Tested:

Considering the age of the building, it was determined that the following **suspect** asbestos-containing materials (ACM) were observed, and were subsequently **tested** for presence/absence of asbestos:

- Roofing material
- Parapet wall flashing
- Door caulking
- Door insulation (assumed)
- Pitch pockets
- Base entrance caulking
- Transite vent pipes
- Transite pipes
- Duct vibration damper (assumed)
- Joint compound
- Drywall
- 2x2 ceiling tile
- 9x9 floor tile
- Cinderblock
- Mortar
- 12x12 floor tile & associated mastic (assumed)
- 2x4 ceiling tile
- Fitting debris
- Fittings
- TSI pipe insulation
- Grout
- Interior window glazing
- Exterior window glazing (assumed)
- Exterior window caulking (assumed)

Positive ACM materials above are highlighted.

1.2.2 Non-ACM:

The following materials were sampled, analyzed and identified to be **non-ACM**, with asbestos either not detected or detected in concentrations of less than one percent (1%):

- Joint compound
- Drywall
- 2x2 ceiling tile
- 9x9 floor tile
- Cinderblock
- Mortar
- 2x4 ceiling tile

- Grout
- Interior window glazing

1.3 Sampling Methodology:

The information that is contained in this report is based upon the following:

- Information which was provided by the building representatives interviewed.
- A visual inspection of the designated building areas supported by a representative sampling required to comply with EPA protocol for asbestos building surveys.
- Laboratory analysis of bulk samples of various materials collected from representative building areas that were suspected to contain asbestos. An accredited laboratory using PLM and TEM/NOB analysis methods performed the analysis.

The asbestos survey was conducted on October 4, 2017 by an accredited USEPA AHERA Asbestos Inspector. The bulk samples, which were representative of suspect ACM observed and are required by the USEPA, were collected as necessary. Multiple samples of each homogeneous material were collected and analyzed by each discernible layer. According to USEPA, a building material with an asbestos concentration greater than one percent (>1%) is considered to be ACM.

Bulk samples were submitted to ELAP accredited Laboratory Testing Services / Accreditation # 10955 and Omega Laboratories / accreditation # 10504 utilizing sealed chain-of-custody procedures.

1.4 Unknown Variables/Areas Not Accessible for Sampling:

Inaccessible Areas

- Enclosed walls/ceilings/chase assemblies
- Exterior window glazing and caulking was not accessible and assumed to be asbestos.
- Mastic under 9x9 floor tiles in Room 200C was not accessible at the time of the inspection.

Concealed Materials Excluded

- Concealed materials may exist in walls/ceilings/chase assemblies.
- Concealed TSI pipe insulation and fittings may exist inside walls throughout.
- Concealed transite vent pipes may exist inside walls throughout.
- Concealed vapor barrier may exist inside walls throughout.
- Concealed 9x9 floor tiles may exist under 12x12 floor tiles in Room 102 per 2003Tetra-Tech lab report.

1.5 Review of Previous Asbestos Surveys, Renovations or Abatement Work:

A 2003 Tetra-Tech lab report was supplied at the time of the inspection.

1.6 Sampling Limitations/Conditions:

The following limitations/exclusions apply:

1. Asbestos bulk sampling report should not be used as sole reference source to determine Contractor scope of work – additional field coordination required in order to generate "Abatement Work Plan".
2. If scope of renovation changes, and/or walls/ceilings/chases/flooring opened, then additional asbestos bulk sampling may be required at a later date.
3. All sampling is representative in nature and does not reflect every square inch of material.
4. Findings are representative of site conditions on day of investigation.
5. Subject survey conducted according to published regulations in effect on survey date.

1.7 ACM Conclusions and Recommendations

Conclusions:

1. ACM has been identified in the form of parapet wall flashing, door caulking, door insulation (assumed), pitch pockets, caulking, transite pipes, transite pipe vents, duct vibration damper (assumed), fittings, TSI pipe insulation, exterior window glazing (assumed), exterior window caulking (assumed), and 12x12 floor tile/mastic (assumed).

2. This survey was based on visual observations of accessible interior/exterior areas of the subject building. Omega's inspection team performed limited intrusive/invasive inspections at random locations in order to ascertain presence/absence of ACM that may be concealed within pipe chases, in wall cavities and above ceiling plenums.
3. Asbestos abatement activities must be conducted in accordance with NJ DOL Regulations, and other applicable federal, state and local requirements governing removal and disposal of regulated ACM utilizing licensed workers.

Recommendations:

- **Prepare abatement design documents to identify the locations of ACM and work practices to be employed during this project. This work should be performed by the USEPA AHERA accredited Asbestos Project Designer.**
- **Any building material that is not listed in this report and/or tested must be assumed to be ACM and treated as ACM until confirmed otherwise via laboratory testing.**

2 LEAD BASED PAINT (LBP)/ CHROMIUM/PCB IN PAINT:

2.1 XRF Testing:

2.1.1 XRF Summary:

On October 4, 2017 Omega Environmental Services Inc. (Omega) conducted a lead based paint screen survey using XRF (x-ray fluorescence). Representative painted building and site components were classified as having lead-based (LBP) or non-LBP present. The inspection was intended for pre-demolition survey purposes only, and not intended to follow USEPA HUD protocol, and was not designed for certification or occupancy purposes.

Concealed structural steel (such as I-beams and columns) should be re-verified once exposed.

The presence of LBP in the building would indicate that the demolition Contractor should follow OSHA *Lead in Construction Standard* (LCS). LBP on metal components that are to be torch cut in relation to demolition should be abated in the area of the cut points prior to cutting. Other materials that may have LBP do not require special treatment. Intact LBP coated components may be disposed of intact as normal construction debris contingent upon acceptable representative TCLP lead test results.

2.1.2 XRF Sampling Methodology:

Omega performed XRF screening for lead within the subject building using a Niton XLp 300A Analyzer. The inspection was conducted by Alexey Palets, an EPA/NJ Lead Inspector/Risk Assessor.

Omega's certified lead Inspector/Risk Assessor performed a lead based paint (LBP) inspection of representative accessible building areas so that presence/absence of LBP can be verified for the subject building in areas which is expected to be demolished to grade.

2.1.3 XRF Clearance Criteria:

The USEPA defines Lead Based Paint as paint having a lead level equal to or exceeding 1.0 mg/cm^2.

2.1.4 XRF Results Summary:

The XRF results section of this report provides a listing of all the reading collected during the inspection, organized by building, component, and type of material. The positive readings, if any, are highlighted and include those readings that were at or above the action level 1.0 mg/cm^2.

The following components **were found to be covered with lead containing paint/primer**:

Location	Component	Type of Material	Quantity of Positive LBP Results	Quantity of Non-LBP Results
2nd Floor, Storage	Wall corner guards	Metal	1	0
2nd Floor, Storage	Elevator door	Metal	1	1
2nd Floor, Staircase	Wall string	Metal	1	0
1st Floor, Hallway by stairs	Door Molding	Metal	1	2
1st Floor, Room 107	Door Molding	Metal	1	1
1st Floor, Room 107	Column	Metal	1	0
1st Floor, Room 107	Pipe	Metal	1	1
1st Floor, Exterior staircase	Stairs	Metal	2	0

LBP ***was not*** identified on the following components:

Location	Component	Type of Material	Quantity of Non-LBP Results
2nd Floor, Room 204	Door	Wood	1
2nd Floor, Room 204	Door Molding	Metal	1
2nd Floor, Room 204	Wall	Brick	4
2nd Floor, Room 204	Wall	Drywall	2
2nd Floor, Room 204	Electrical conduit	Metal	1
2nd Floor, Room 204	Window lintel	Metal	2
2nd Floor, Room 204	Window Sill	Brick	1
2nd Floor, Room 204	Ceiling	Concrete	3
2nd Floor, Room 204	Pipe	Metal	1
2nd Floor, Room 204	Electrical box	Metal	1
2nd Floor, Storage	Wall	Brick	3
2nd Floor, Storage	Wall	Concrete	1
2nd Floor, Storage	Wall	Drywall	2
2nd Floor, Storage	Window Molding	Metal	3
2nd Floor, Storage	Door	Metal	1
2nd Floor, Storage	Door	Wood	1
2nd Floor, Storage	Door Molding	Metal	2
2nd Floor, Storage	Elevator door molding	Metal	1
2nd Floor, Storage	Elevator wall interior	Metal	2
2nd Floor, Storage	Column	Concrete	1
2nd Floor, Storage	Column metal corner guard	Metal	2
2nd Floor, Storage	Pipe	Pipe	3

Location	Component	Type of Material	Quantity of Non-LBP Results
2nd Floor, Storage	Ceiling	Concrete	2
2nd Floor, Room 200c in storage	Door	Wood	1
2nd Floor, Room 200c in storage	Door Molding	Metal	1
2nd Floor, Room 200c in storage	Wall	Drywall	4
2nd Floor, Room 200c in storage	Window Sill	Wood	1
2nd Floor, Room 200c in storage	Window Molding	Wood	1
2nd Floor, Room 205	Door	Wood	4
2nd Floor, Room 205	Door Molding	Metal	4
2nd Floor, Room 205	Wall	Drywall	3
2nd Floor, Room 205	Window Sill	Wood	1
2nd Floor, Room 205	Window Molding	Wood	1
2nd Floor, Room 206	Door	Wood	1
2nd Floor, Room 206	Door Molding	Metal	1
2nd Floor, Room 206	Wall	Drywall	4
2nd Floor, Room 207	Door	Wood	1
2nd Floor, Room 207	Door Molding	Metal	1
2nd Floor, Room 207	Wall	Drywall	7
2nd Floor, Room 208	Door	Wood	1
2nd Floor, Room 208	Door Molding	Metal	1
2nd Floor, Room 208	Wall	Drywall	5
2nd Floor, Room 208	Chair rail wall guard	Wood	2
2nd Floor, Room 208	Window Molding	Metal	1
2nd Floor, Bridge	Beam	Metal	12
2nd Floor, Room 216	Door	Wood	2
2nd Floor, Room 216	Door Molding	Metal	4
2nd Floor, Room 216	Wall	Brick	2
2nd Floor, Room 216	Wall	Drywall	3
2nd Floor, Room 216	Window Sill	Concrete	1
2nd Floor, Room 216	Window Molding	Metal	2
2nd Floor, Room 217	Door	Wood	1
2nd Floor, Room 217	Door Molding	Metal	1
2nd Floor, Room 217	Wall	Drywall	4
2nd Floor, Room 211	Door	Wood	1
2nd Floor, Room 211	Door Molding	Metal	1
2nd Floor, Room 211	Wall	Drywall	4
2nd Floor, Hallway	Door	Metal	1
2nd Floor, Hallway	Door	Wood	1
2nd Floor, Hallway	Door Molding	Metal	3
2nd Floor, Hallway	Wall	Brick	2
2nd Floor, Hallway	Wall	Drywall	2

Location	Component	Type of Material	Quantity of Non-LBP Results
2nd Floor, Hallway	Window Sill	Brick	1
2nd Floor, Hallway	Window Molding	Metal	1
2nd Floor, Hallway	Electrical conduit	Metal	1
2nd Floor, Restroom	Door	Wood	1
2nd Floor, Restroom	Wall	Brick	4
2nd Floor, Restroom	Door Molding	Metal	1
2nd Floor, Restroom	Window Molding	Metal	2
2nd Floor, Restroom	Partition	Metal	1
2nd Floor, Staircase	Wall	Brick	5
2nd Floor, Staircase	Wall	Concrete	1
2nd Floor, Staircase	Window Sill	Metal	2
2nd Floor, Staircase	Stairs	Metal	7
2nd Floor, Staircase	Floor	Concrete	1
Roof, Bulkhead	Door	Metal	2
Roof, Bulkhead	Door Molding	Metal	2
1st Floor, Hallway by stairs	Door	Metal	2
1st Floor, Hallway by stairs	Door	Wood	1
1st Floor, Hallway by stairs	Door Molding	Metal	2
1st Floor, Hallway by stairs	Wall	Brick	3
1st Floor, Hallway by stairs	Wall	Drywall	1
1st Floor, Room 104A-1	Door	Wood	2
1st Floor, Room 104A-1	Door Molding	Metal	4
1st Floor, Room 104A-1	Wall	Drywall	3
1st Floor, Room 104A-1 restroom	Door Molding	Metal	3
1st Floor, Room 104A-1 restroom	Wall	Drywall	1
1st Floor, Room 104A-1 restroom	Wall	Plaster	1
1st Floor, Room 104A-1 restroom	Wall	Brick	3
1st Floor, Room 104A-1 restroom	Door	Wood	1
1st Floor, Room 104	Door Molding	Metal	1
1st Floor, Room 104	Wall	Drywall	3
1st Floor, Room 104	Wall	Brick	3
1st Floor, Room 104	Ceiling	Concrete	1
1st Floor, Room 104	Floor	Concrete	1
1st Floor, Room 104	Pipe	Metal	1
1st Floor, Room 104C	Door	Metal	1
1st Floor, Room 104C	Door Molding	Metal	1
1st Floor, Room 104C	Wall	Drywall	1
1st Floor, Room 104C	Wall	Brick	6
1st Floor, Room 104C	Window Molding	Metal	1
1st Floor, Room 107	Door Molding	Metal	4

Location	Component	Type of Material	Quantity of Non-LBP Results
1st Floor, Room 107	Wall	Brick	4
1st Floor, Room 107	Wall	Metal	3
1st Floor, Room 107	Wall	Drywall	1
1st Floor, Room 107	Pipe	Metal	1
1st Floor, Room 107	Door	Metal	2
1st Floor, Room 107	Window Molding	Metal	1
1st Floor, Room 107	Baseboard	Wood	1
1st Floor, Room 107	Elevator door	Metal	2
1st Floor, Room 107	Elevator door molding	Metal	2
1st Floor, Exterior staircase	Door	Metal	2

See *Appendix Table B2* for all XRF reading collected and specific location of each.

NOTE: Lead Based Paint (LBP) via XRF testing is defined as paint having lead at or above 1 mg/cm^2. However OSHA *Lead in Construction Standard* applies to substrates coated with paint having *any detectable amount of lead*.

Although the above components are not considered to be coated with LBP, the XRF survey results shows detectable amounts of lead in most substrates tested.

2.1.5 LBP XRF Findings:

The USEPA defines Lead Based Paint as paint having a lead level equal to or exceeding 1.0 mg/cm^2.

2.1.6 XRF Results Summary:

Wall corner guards and elevator door in 2nd Floor Storage area, wall strings on 2nd Floor staircase, door moldings in 1st Floor Hallway by stairs and Room 107, columns and pipes in Room 107, stairs on the 1st Floor, and exterior staircase would be classified as lead based paint.

2.2 Chromium/PCB in Paint:

2.2.1 Paint Bulk Samples (PCBs and Chromium):

In order to assess possible future waste characterization, three representative samples of paint were collected for PCBs and for total chromium.

Three samples of paint were collected and analyzed for PCBs, total chromium and lead.

Sample #	Location/ Description	Analysis	Result (mg/kg)	Limit (1)
1279-P01	1st floor, on sheetrock wall next to lounge in repair shop	PCB	ND	50 ppm
		Total Chromium	ND	5 mg/L (1)
		Total Lead	2.7	5 mg/L (1)
1279-P02	1st. floor, on masonry in repair shop right of garage door	PCB	ND	50 ppm
		Total Chromium	ND	5 mg/L (1)
		Total Lead	19.1	5 mg/L (1)
1279-P03	Bridge	PCB	1.812	50 ppm
		Total Chromium	0.188	5 mg/L (1)
		Total Lead	2.70	5 mg/L (1)

(1) Based on TCLP analysis not performed. See findings.

2.3 LBP/Chromium/PCB in Paint Findings:

LBP – Low levels of LBP was identified in the three paint bulk samples collected. See discussion below related to Chromium in paint findings. Also see XRF section above

PCBs – PCBs were only detected in the in the paint sample of the bridge. The level is well below the RCRA hazardous waste limit of 5 ppm (mg/kg).

Chromium – Chromium was only found to be present in the paint sample of the bridge at very low levels.

Total vs. TCLP - A direct conversion of "total" results (in mg/kg) to exact TCLP results (in mg/L) is not feasible. A "rule of thumb" guide often used is TCLP results would be *approximately* 1/20th the level of the total totals shown above. Based on this it is likely that the paint sampled would be considered be non-hazardous waste. Since the entire substrate with paint would be considered as the waste stream, representative TCLP sampling of the paint and substrate should result in lower concentration values due to dilution.

2.4 LBP/Chromium/PCB in Paint Recommendations:

- Due to LBP XRF results, conduct demolition activities in accordance with *OSHA 29 CFR 1910.1026 Lead in Construction Standard*

- Verify that disposal facility will accept demolition debris with low levels of PCBs, Lead, and Chromium.
- Conduct representative TCLP testing of stockpile demolition debris to rule out hazardous waste classification related to lead and chromium.

3 PCBs (other than in paint):

3.1 Fluorescent Light Ballasts:

Fluorescent lights fixtures and associated ballasts historically have contained Polychlorinated Byphenols (PCBs). Normally, light ballasts are assumed to contain PCBs unless specifically labeled as "non-PCB".

Fixture size	Qty. of fixtures	Bulb Length	#of bulbs/ fixture	Est ballasts/ fixture	Est. total qty. of ballasts.	Total qty. of bulbs	Comments
1' x 8'	67	8'	2	2	134	134	Bulbs are a mix of silver tipped (mercury) and green tipped (non-mercury)
1' x 4'	9	4'	2	2	18	18	
1' x 2'	3	4'	2	2	6	6	
2' x 2'	Est. 4	2'	4	2	8	8	
2' x 2'	22	2'	2 u-bulbs	2	44	44	
2' x' 4'	15	4'	2	2	30	30	
2' x 4'	3	4'	3	2	6	9	
2' x 4'	20	4'	4	2	8	8	
---	---	8'	8	---	0	8	Loose bulbs in box
---	---	4'	4'	---	0	7	Loose bulbs in box
			Totals		**277**	291	

Some of the ballasts are labeled as "No PCBs". However, a full investigation of all ballasts was not conducted. Ballasts labeled as no PCBs may be disposed of as normal demolition debris. An inspection of each ballast would be required. Alternately, all ballasts may be assumed to contain PCBs and disposed of as PCB bulk product waste.

3.2 Transformers:

No transformers are located within the building or directly on the property.

3.3 Window Caulking:

Virtually all of the windows and door frames are prefabricated with rubber seals. Caulking was found to be present around the doorway to the former walk in refrigerator (sample #1080-4).

Total PCBs in the table below consist of the following:
Aroclor 1016
Aroclor 1221
Aroclor 1232
Aroclor 1242
Aroclor 1248
Aroclor 1254
Aroclor 1260

Sample #	Location/ Description	Analysis	Result (mg/kg)	Limit [1]
1279-C01	Roof, caulking around door	PCBs	ND	50 ppm
1279-C02	2nd floor window caulking, SW office room 204	PCBs	ND	50 ppm
1279-C03	1st floor exterior window caulking, north side, right of garage door	PCBs	ND	50 ppm

[1] RCRA Hazardous Waste Limit

All samples of caulking material are None Detected for PCBs.

3.4 PCB Conclusions and Recommendations:

1. **Dispose of all light ballasts as PCB containing waste unless specifically labeled as "No PCBs".**

4 MERCURY:

4.1 Fluorescent Light Bulbs/High intensity Floodlights:

Fixture size	Qty. of fixtures	Bulb Length	#of bulbs/ fixture	Est ballasts/ fixture	Est. total qty. of ballasts.	Total qty. of bulbs	Comments
1’ x 8’	67	8’	2	2	134	134	Bulbs are a mix of silver tipped (mercury) and green tipped (non-mercury)
1’ x 4’	9	4’	2	2	18	18	
1’ x 2’	3	4’	2	2	6	6	
2’ x 2’	Est. 4	2’	4	2	8	8	
2’ x 2’	26	2’	2 u-bulbs	2	52	52	
2’ x’ 4’	15	4’	2	2	30	30	
2’ x 4’	7	4’	3	2	21	14	
2’ x 4’	20	4’	4	2	8	8	
---	---	8’	8	---	0	8	Loose bulbs in box
---	---	4’	4’	---	0	13	Loose bulbs in box
			Totals		277	**291**	

Mercury content of fluorescent bulbs has decreased over recent years. Non-mercury bulbs generally have green tips on the ends. These may contain low levels of mercury but are considered to be non-hazardous.

Although some of the bulbs may contain mercury at levels below disposal regulatory limits, the quantity of types of bulbs, and the lack of any discernible location pattern of specific types, indicate that further investigation/delineation of possible unregulated bulbs may be cost prohibitive.

Therefore, unless the absence of mercury can be confirmed, all bulbs should be carefully removed, packaged, and disposed of as mercury containing universal waste.

High intensity floodlight may contain heavy metal vapors that may be released if the bulb is broken. Any high intensity bulbs on the site should be carefully removed, packaged to prevent breakage, and disposed of as universal waste.

4.2 Thermostats, Switches, and Timers:

Thermostats historically contained a mercury bulb that act as a switch for an HVAC system. These bulbs are readily observed when the cover is removed.

No wall mounted mercury bulb thermostats or other mercury containing equipment was identified in the building. Any thermostats suspected of having a mercury containing bulb should be disposed of mercury containing waste.

Although it may be possible to remove the mercury bulbs from the thermostats, the risk of a potential spill for the small quantity of mercury containing does warrant attempted separate removal of mercury bulbs from the thermostats.

4.3 Mercury Conclusions and Recommendations:

- **All fluorescent bulbs without green tips and high intensity flood lights should be carefully removed, packaged, and disposed of as mercury containing universal waste.**
- **Remove, package, and dispose of any suspect thermostats, timers, and switches as mercury containing universal waste.**

5 CHEMICAL STORAGE:

5.1 Drums, Tanks, and Chemical Storage, ASTs:

Various size containers of auto repair related fluids are located in the building's repair shop and include the following:

- One 250-gallon used antifreeze AST
- One 250-gallon used motor oil AST
- Two 55-gallon drums of used oil filters
- One oil drain container
- One parts cleaning tray with 20 gallon drum
- One 55-gallon drum new motor oil
- One 55-gallon drum hydraulic/transmission fluid
- One 55-gallon drum diesel engine oil
- Two 55-gallon drums 5W30 new motor oil
- Twelve 5-gallon packages of motor oil, grease, and transmission fluid

5.2 Underground Storage Tanks (USTs):

No evidence of active USTs was observed in the subject area. No fill ports or vents were identified on the site.

5.3 Paints, Solvents, Adhesives, and Small Misc. Fluids:

In addition to items listed in section 5.1 various small containers of fluids were noted as follows:

Miscellaneous smaller containers of various fluids include the following:

Shop

- Flammables cabinet – spray paint, silicon, rubberized undercoating, battery cleaner, grease).
- Three locked equipment cabinet (contents unknown)

Paint Room

- Approximately 340 1-gallon cans of paint (80% latex, 20% oil based)
- Approximately 35 5-gallon buckets of paint
- Two flammables cabinets (120-cans of enamel and stain, 20 cans of spray paint, 20 1 qt. cans of paint)

Lounge

- Fifteen storage cabinets. Report worker tools storage but some fluids expected to be present.

5.4 Batteries:

None noted

5.5 Staining:

No significant staining (other than minimal areas in shop) was noted through the building.

5.6 Chemical Storage Conclusions and Recommendations:

- **Remove and dispose of all fluids and containers prior to demolition.**

6 BIOLOGICAL CONCERNS:

6.1 Sanitary Sewers:

No open sewers, spills, leaks, or sewer odors were noted.

6.2 Mold:

No significant mold growth was noted.

6.3 Bird Feces:

No significant bird feces were observed in the subject area.

6.4 Biological Concerns Conclusions and Recommendations:

- **No further action is recommended in regard to potential Biological Concerns in the subject area**.

7 OTHER/MISCELLANEOUS:

7.1 Mechanical Equipment:

7.1.1 *Boiler Systems*:

Boilers often have anti-corrosion treatment chemicals that would require special disposal procedures.

No boilers were noted in the building.

7.1.2 *Refrigerant Systems*:

Refrigerants such as Freon require special extraction and disposal procedures.

Refrigerated units consisted of the following:

- Six rooftop split units
- 1 household refrigerator
- 1 water fountain
- 1 soda machine.

7.1.3 *Compressor Systems:*

Compressors often contain various oils and lubricants that should be extracted and properly disposed of prior to demolition of equipment.

No compressors were identified as presently existing on the site.

2.2.3 *Elevators:*

One freight elevator is located in the shop area. This is hydraulically driven. The reservoir area did not have signs of leakage or spillage. The elevator pit was inaccessible at the time of inspection.

2.2.4 Hydraulic Lifts:

One *former* hydraulic lift was reportedly present in the repair shop area. No further information was readily available regarding the disposition of the lift.

7.2 Other/Miscellaneous Conclusions and Recommendations:

- **Drain refrigerant from refrigerated units prior to demolition.**

8 SUMMARY OF RECOMMENDATIONS:

8.1 ACM Recommendations:

- Prepare abatement design documents to identify the locations of ACM and work practices to be employed during this project. This work should be performed by the USEPA AHERA accredited Asbestos Project Designer.
- Any building material that is not listed in this report and/or tested must be assumed to be ACM and treated as ACM until confirmed otherwise via laboratory testing.

8.2 LBP/Chromium/PCB in Paint Recommendations:

- Due to LBP XRF results, conduct demolition activities in accordance with *OSHA 29 CFR 1910.1026 Lead in Construction Standard.*
- Verify that disposal facility will accept demolition debris with low levels of PCBs, Lead, and Chromium.
- Conduct representative TCLP testing of stockpile demolition debris to rule out hazardous waste classification related to lead and chromium.

8.3 PCB Recommendations:

- Dispose of all light ballasts as PCB containing waste unless specifically labeled as "No PCBs".
- No further action is recommended in regard to potential PCBs in caulking sampled.

8.4 Mercury Recommendations:

- All fluorescent bulbs without green tips and high intensity flood lights should be carefully removed, packaged, and disposed of as mercury containing universal waste.
- Remove, package, and dispose of all suspect thermostats, timers, and switches as mercury containing universal waste.

8.5 Chemical Storage Recommendations:

- Remove and dispose of all fluids and containers prior to demolition**.**

8.6 Biological Concerns Recommendations:

- No further action is recommended in regard to potential Biological Concerns in the subject area.

8.7 Other/Miscellaneous Recommendations:

- Drain refrigerant from refrigerated units prior to demolition.

9.1 Site Photographs

Back of building

Debris above ceiling

Flashing

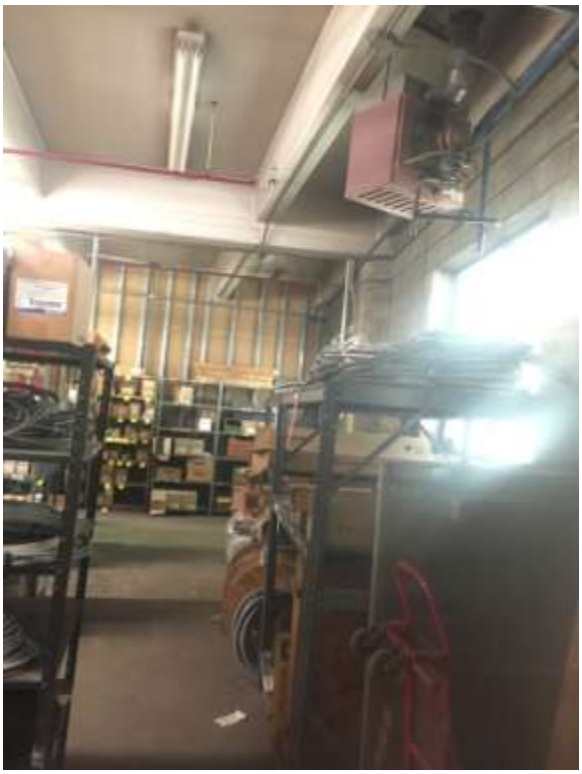
Parapet wall flashing

Transite panel

Transite pipes

Transite vent

Transite



Warehouse

Window glazing

A. Asbestos (ACM)

A1. Analytical Methodology
A2. Table of Sample Results
A3. Asbestos Laboratory Analytical Reports

A1. Analytical Methodology:

Definitions:

ACM: asbestos containing material
RACM: regulated asbestos containing material
VCM: vermiculite containing material
TSI: thermal system insulation (pipe insulation)
SSI: surfacing material (spray-on fireproofing, plaster, etc.)
Miscellaneous finish material: sheetrock, floor tile, roofing, other
NOB: non-organically bound non-friable material (e.g. roofing, floor tile, etc.)

Friable vs. Non-friable**:**

1. A friable material is one that can be easily crumbled, pulverized, or reduced to powder by hand pressure. This characteristic of a building material is directly linked to the potential of the material to release asbestos fibers into the air.
2. Non-friable are the materials that are organically bound normally fall into this category as long as they are in good condition. Some of the materials, which would be defined as non-friable material, include floor tiles, roofing materials, mastic, etc. Non-friable ACM are categorized into two (2) categories by USEPA: Category I non-friable materials, such as resilient floor tiles, and roofing materials are not expected to become friable when disturbed. Non-friable ACM, such as laboratory table tops and transite siding/paneling, are considered to be a category II non-friable ACM.
3.

Criteria for Positive Classification as Regulated Asbestos Containing Material (RACM):

Asbestos containing material (ACM)

The EPA defines ACM as any material having an Asbestos content greater than 1%. If the analytical results for any sample of suspected material indicate that asbestos is present above a level of one percent, the building material is classified as regulated ACM (RACM) which triggers management and/or abatement, if impacted.

Vermiculite (VCM)

Related to cross-contamination in the mining industry, as well as new concerns about Amphibole minerals with crystalline structure similar to Asbestos, bulk samples found to contain greater than or equal to ten percent Vermiculite require further classification *in NYS/NYC*. Vermiculite is not currently regulated in New Jersey.

Representative Nature of All Sampling:

The purpose of bulk sampling is to characterize representative materials, not remove and test every square inch of material. The Inspector/Investigator uses a combination of EPA recommended bulk sampling criteria and professional judgment to select representative sampling locations of each suspect material type. In certain rare cases, building materials may appear to be homogeneous (e.g. plaster, roofing, etc.) but vary section to section due to patching, different installation methods floor-to-floor, and other causes. Additional testing beyond normal survey protocol can be required for these scenarios.

HOMOGENEOUS AREAS: A homogeneous area is a portion of a building/structure with similar/same installed materials such that bulk analysis results from one area can be applied in the next for the purpose of asbestos quantification.

'FIRST POSITIVE STOP': In order to reduce unnecessary survey laboratory analysis costs when samples are collected in groups of three (3) or two (2), as required by EPA sampling criteria, when the first or second sample is reported as positive in a group, then the additional samples are declared positive with no analysis.

SAMPLING FROM SLAB UP: Because older/original bottom layer materials are more likely to contain asbestos versus newer layers, materials such as floor tiles and roofing are sampled from the slab up. If a positive lower or middle layer is identified, all materials in the layered system can be declared ACM if they cannot be separated during the abatement process.

SHEETROCK JOINT COMPOUND TESTING: Since most sheetrock wallboard systems are painted, it is difficult to impossible to assess where one type of material starts and ends. EPA has published memos concerning composite sampling that were not approved by OSHA which requires discrete sampling. This agency does not recognize composite testing of joint compound for the purpose of preventing employee exposure. NYSDOL also requires separate sampling of joint compound. The PLM analysis method has been generally utilized for this material type, where samples in the trace-1% inconclusive range are also run by TEM-NOB for additional accuracy.

Non-friable asbestos samples collected are analyzed using the TEM-NOB method of analysis, as required by regulation.

Upon completion of the sampling, the samples were submitted to an accredited approved laboratory for analysis. The samples were divided into batches and analyzed by EPA Method 600/MA-82-020, Polarized Light Microscopy with dispersion staining. The percentage of each type of asbestos was determined and any remaining materials were identified. The U.S. Environmental Agency defines ACM as having an asbestos content of greater $\geq$ than 1%. If the analytical results for any sample of suspected material indicate that asbestos is present above a level of one percent, the building material is considered to contain asbestos.

1. Stereoscope Examination:

Working under a designated bulk asbestos laboratory hood, a sample is carefully poured onto the stage of the stereoscope for examination to determine if the sample is homogeneous and fibrous.

2. Slide Preparation:

A slide of each component in the sample is prepared using as little matrix material as possible. Samples are mounted on microscope slides in high dispersion refractive index liquids. For asbestos analysis, the sample is initially mounted in liquids with refractive indexes of (η) of 1.550, close to that of chrysotile asbestos. Liquids of higher refractive index may also be required for determining other asbestos forms.

3. PLM Examination:

Each slide is examined under a high quality polarized light microscope (20x-55x objective). A dispersion staining objective is also used.

The samples are first examined under plane polarizing light with the condenser set at zero. The morphology and relief of the fibers and matrix materials are observed. Next the analyzer is inserted for examination under the cross polars. Determinations are made if the fibers are isotropic or opaque with the angle of extinction noted. The condenser plate may also be inserted to produce retardation colors, depending on birefringence of the material. The sign of elongation is also determined at this time.

Refractive index is determined by matching a particular fiber with a refractive index liquid of the closest refractive index. The Becke line test is also used to cheek the refractive index. Dispersion staining is used to further characterize the components of a sample.

4. Identification of Asbestos:

Chrysotile

Chrysotile, which is the most common asbestos-form, is easily identified in liquid of refractive index 1.550 by its characteristic morphology (fibrous bundles with kinked bends) and dispersion staining colors (blue-magenta).

Amosite

Amosite is identified in 1.688 refractive index liquid by morphology (straight fibers with broomed ends) and dispersion staining colors (blue-yellow).

Crocidolite

The straight or bundled fibers of crocidolite (amphibole) are pleochroic; they appear blue-grey under plane polarized light. The fibers show negative sign of elongation and an index of refraction approaching 1.680.

Other Asbestos-Forms

Other fibrous amphiboles, which differ in refractive index from amosite, are anthophyllite

(η= 1.605), tremolite (η= 1.605), and actinolite (η= 1.680).

5. TEM/NOB Analysis:

Due to matrix interference, NJDOL requires all non-friable materials tested (i.e., floor tiles, asphalt roofing, mastics, etc.) undergo TEM (transmission electron microscopy)/NOB EPA 600/R-93/116 (non-organically bound) analysis NY ELAP 198.4 Method. This analysis method, which is conducted by an accredited independent testing laboratory, includes ashing of the sample matrix to reduce binder interference to provide a lower detection limit.

A2. Asbestos Bulk Sampling & Analysis Results of Areas Inspected:

According to EPA definition a material that contains 1% or greater asbestos content is classified as regulated ACM. Representative bulk sampling and analysis was conducted of the following:

SAMPLE ID	HA	SAMPLE LOCATION	MATERIAL DESCRIPTION	FRIABLE/ NON-FRIABLE	LAB RESULTS	
					%Asbestos	%Vermiculite
01	1	Main Roof	Roofing Bottom Layer	Non-friable	None detected	None detected
02	2	Main Roof	Roofing 2nd Layer	Non-friable	None detected	None detected
03	3	Main Roof	Roofing 3rd Layer	Friable	None detected	None detected
04	4	Main Roof	Roofing Top layer	Non-friable	None detected	None detected
05	1	Main Roof	Roofing Bottom Layer	Non-friable	None detected	None detected
06	2	Main Roof	Roofing 2nd Layer	Non-friable	None detected	None detected
07	3	Main Roof	Roofing 3rd Layer	Friable	None detected	None detected
08	4	Main Roof	Roofing Top layer	Non-friable	None detected	None detected
09	5	Main Roof	Parapet wall flashing	Non-friable	7.53% Chrysotile	None detected
10	5	Main Roof	Parapet wall flashing	Non-friable	Positive stop	-
11	6	Main Roof Entrance	Base flashing	Non-friable	10.13% Chrysotile	None detected
12	7	Main Roof Entrance	Door caulking	Non-friable	6.02% Chrysotile, 2.41% Anthophyllite	None detected
13	8	Main Roof Entrance	Vent caulking	Non-friable	None detected	None detected
14	9	Main Roof Entrance	Pitch pockets	Non-friable	1.79% Chrysotile	None detected
15	10	Main Roof Entrance	Base entrance caulking	Non-friable	1.93% Chrysotile	None detected
16	11	Main Roof Entrance	Transite Vent Pipes	Friable	20.5% Chrysotile, 16.75% Crocidolite	None detected
17	11	Main Roof Entrance	Transite Vent Pipes	Friable	Positive stop	-
18	12	2nd Floor Warehouse	Joint Compound	Friable	None detected	None detected
19	12	2nd Floor Office 200c	Joint Compound	Friable	None detected	None detected
20	13	2nd Floor Warehouse	Drywall	Friable	None detected	None detected
21	13	2nd Floor Warehouse Office 200c	Drywall	Friable	None detected	None detected
22	14	2nd Floor Warehouse Office 200c	2'x2' Ceiling Tile	Friable	None detected	None detected
23	14	2nd Floor Warehouse Office 200c	2'x2' Ceiling Tile	Friable	None detected	None detected
24	15	2nd Floor Office 200C	9x9 black floor tile	Non-friable	None detected	None detected
25	15	2nd Floor Office 200C	9x9 black floor tile	Non-friable	None detected	None detected

SAMPLE ID	HA	SAMPLE LOCATION	MATERIAL DESCRIPTION	FRIABLE/ NON-FRIABLE	LAB RESULTS	
					%Asbestos	%Vermiculite
26	16	2nd Floor Warehouse	Cinderblock	Friable	None detected	None detected
27	17	2nd Floor Warehouse	Mortar	Friable	None detected	None detected
28	16	2nd Floor Stair Case By Roof	Cinderblock	Friable	None detected	None detected
29	17	2nd Floor Stair Case By Roof	Mortar	Friable	None detected	None detected
30	16	2nd Floor Ladies Bathroom	Cinderblock	Friable	None detected	None detected
31	17	2nd Floor Ladies Bathroom	Mortar	Friable	None detected	None detected
32	18	2nd Floor Main Lobby	Mastic under 12x12 floor tile	Non-friable	None detected	None detected
33	19	2nd Floor Main Lobby	12x12 red floor tile	Non-friable	None detected	None detected
34	18	2nd Floor Main Lobby	Mastic under 12x12 floor tile	Non-friable	None detected	None detected
35	19	2nd Floor Main Lobby	12x12 red floor tile	Non-friable	None detected	None detected
36	20	2nd Floor Office Hallway	2'x4' Ceiling Tile	Friable	None detected	None detected
37	20	2nd Floor 214TC	2'x4' Ceiling Tile	Friable	None detected	None detected
38	20	2nd Floor Office 215	2'x4' Ceiling Tile	Friable	None detected	None detected
39	21	2nd Floor Staircase Landing	Window glazing	Non-friable	None detected	None detected
40	22	1st Floor 104A	Fitting Debris	Friable	16.5% Amosite, 52% Chrysotile	None detected
41	23	1st Floor 104A	TSI Pipe Insulation	Friable	55.25% Chrysotile	None detected
42	24	1st Floor 104A	TSI Pipe Insulation	Friable	10.50% Amosite, 45.75% Chrysotile	None detected
43	23	1st Floor 104A 2 Bath	TSI Pipe Insulation	Friable	Positive stop	-
44	25	1st Floor Bathroom	Grout	Friable	None detected	None detected
45	25	1st Floor Bathroom	Grout	Friable	None detected	None detected
46	22	1st Floor 104	Fitting	Friable	Positive stop	-
47	23	1st Floor 104	TSI Pipe Insulation	Friable	Positive stop	-
48	26	1st Floor Dining Room 104	12x12 grey floor tile	Non-friable	None detected	None detected
49	27	1st Floor Dining Room 104	2'x2' Ceiling Tile	Friable	None detected	None detected
50	27	1st Floor Bathroom	2'x2' Ceiling Tile	Friable	None detected	None detected

A3. Asbestos Laboratory Analytical Reports:

LABORATORY TESTING SERVICES INC. 45-09 Greenpoint Ave. LIC, NY 11104 Phone: (718) 389 3470, Fax: (718) 389 3471

BULK ASBESTOS TEST REPORT

Client/Address: Omega Environmental/280 Huyler St., So. Hackensack, NJ 07606 | **Project:** 251 West Side Ave., Jersey City **Project #:** 17-1279

Laboratory ID: 17-10-050 | **Date of Report:** 10/09/17 | **Date of Analysis:** 10/08/17

Client ID # Lab ID #	Stereomicroscope Analysis					Sample Description	% Non-Fibrous Material	% Friable Results		% All	% PLM NOB Results		% TEM NOB Results		% TOTAL Asbestos
1	A	BK	E			Roof, Main Roof, Roofing Bottom Layer				43.61	*		NAD		NAD
17-10-050-01	B	1	F												
	C	198.4	G												
	D		H												
2	A	BK	E			Roof, Main Roof, Roofing 2nd Layer				2.76	*		NAD		NAD
17-10-050-02	B	1	F												
	C	198.4	G												
	D		H												
4	A	BK	E			Roof, Main Roof, Roofing Top Layer				5.03	*		NAD		NAD
17-10-050-03	B	1	F												
	C	198.4	G												
	D		H												
5	A	BK	E			Roof, Main Roof, Roofing Bottom Layer				64.07	*		NAD		NAD
17-10-050-04	B	1	F												
	C	198.4	G												
	D		H												
6	A	BK	E			Roof, Main Roof, Roofing 2nd Layer				3.02	*		NAD		NAD
17-10-050-05	B	1	F												
	C	198.4	G												
	D		H												
8	A	BK	E			Roof, Main Roof, Roofing Top Layer				25.37	*		NAD		NAD
17-10-050-06	B	1	F												
	C	198.4	G												
	D		H												

Omega Environmental Services, Inc. 280 Huyler Street - South Hackensack, NJ 07606 - Tel: (201) 489-8700 - Fax: (201)342-5412

LABORATORY TESTING SERVICES INC. 45-09 Greenpoint Ave. LIC, NY 11104 Phone: (718) 389 3470, Fax: (718) 389 3471

BULK ASBESTOS TEST REPORT

Client/Address: Omega Environmental/280 Huyler St., So. Hackensack, NJ 07606 | **Project:** 251 West Side Ave., Jersey City | **Project #:** 17-1279

Laboratory ID: 17-10-050 | **Date of Report:** 10/09/17 | **Date of Analysis:** 10/08/17

Client ID # Lab ID #	Stereomicroscope Analysis					Sample Description	% Non-Fibrous Material	% Friable Results		% All	% PLM NOB Results		% TEM NOB Results		% TOTAL Asbestos
9	A	BK	E			Roof, Main Roof, Parapet Wall Flashing				21.51	*		7.53	CH	7.53
	B	1	F												
17-10-050-07	C	198.4	G												
	D		H												
10	A	BK	E			Roof, Main Roof, Parapet Wall Flashing					*		NA		SAFP
	B	1	F												
17-10-050-08	C		G												
	D		H												
11	A	BK	E			Roof, Entrance Main Roof, Base Flashing				32.88	*		10.13	CH	10.13
	B	1	F												
17-10-050-09	C	198.4	G												
	D		H												
12	A	GR	E			Roof, Entrance Main Roof, Door Caulking				24.08	*		6.02	CH	8.43
	B	1	F										2.41	ANTH	
17-10-050-10	C	198.4	G												
	D		H												
13	A	BR	E			Roof, Entrance Main Roof, Vents Caulking				2.82	*		NAD		NAD
	B	1	F												
17-10-050-11	C	198.4	G												
	D		H												
14	A	BK	E			Roof, Entrance Main Roof, Pitch Pockets				8.93	*		1.79	CH	1.79
	B	1	F												
17-10-050-12	C	198.4	G												
	D		H												

Omega Environmental Services, Inc. 280 Huyler Street - South Hackensack, NJ 07606 - Tel: (201) 489-8700 - Fax: (201)342-5412

LABORATORY TESTING SERVICES INC. 45-09 Greenpoint Ave. LIC, NY 11104 Phone: (718) 389 3470, Fax: (718) 389 3471

BULK ASBESTOS TEST REPORT

Client/Address: Omega Environmental/280 Huyler St., So. Hackensack, NJ 07606 | **Project:** 251 West Side Ave., Jersey City | **Project #:** 17-1279

Laboratory ID: 17-10-050 | **Date of Report:** 10/09/17 | **Date of Analysis:** 10/08/17

Client ID # / Lab ID #	Stereomicroscope Analysis					Sample Description	% Non-Fibrous Material	% Friable Results		% All	% PLM NOB Results		% TEM NOB Results		% TOTAL Asbestos
15 / 17-10-050-13	A	Dr. GR	E			Roof, Entrance Main Roof, Base Entrance Caulking				7.73	*		1.93	CH	1.93
	B	1	F												
	C	198.4	G												
	D		H												
24 / 17-10-050-14	A	BK	E			2nd Floor, Office 200C, 9" x 9" Black Floor Tile				48.62	*		NAD		NAD
	B	1	F												
	C	198.4	G												
	D		H												
25 / 17-10-050-15	A	BK	E			2nd Floor, Office 200C, 9" x 9" Black Floor Tile				51.70	*		NAD		NAD
	B	1	F												
	C	198.4	G												
	D		H												
32 / 17-10-050-16	A	BK	E			2nd Floor, Main Lobby, Mastic under 12" x 12" FT				11.35	*		NAD		NAD
	B	1	F												
	C	198.4	G												
	D		H												
33 / 17-10-050-17	A	R	E			2nd Floor, Main Lobby, 12" x 12" Red Floor Tile				2.79	*		NAD		NAD
	B	1	F												
	C	198.4	G												
	D		H												
34 / 17-10-050-18	A	BK	E			2nd Floor, Main Lobby, Mastic under 12" x 12" FT				17.09	*		NAD		NAD
	B	1	F												
	C	198.4	G												
	D		H												

BULK ASBESTOS LABORATORY ANALYSIS REPORT

[NYS DOH ELAP ID# 10504]

CLIENT NAME: PAULUS, SOKOLOWSKI & SARTOR, LLC.
ATTN: STEVE MARAVELIAS
1433 STATE HIGHWAY 34, SUITE A
WALL, NJ 07747

PROJECT/AREA: NEW JERSEY CITY UNIVERSITY
251 WEST SIDE AVENUE
JERSEY CITY, NY 07305

CLIENT ID: PSSSM010

DATE SAMPLED: 10/04/17
DATE RECEIVED: 10/05/17
DATE ANALYZED: 10/05/17
DATE OF REPORT: 10/05/17

PROJECT #: 17-1279
ANALYST: TG
TEST REQUESTED: BULK ASBESTOS BY PLM
METHOD #: EPA600/M4/82/020
TEM-NOB ANALYSIS REQUIRED TO CONFIRM NEGATIVE PLM ANALYSIS IN NY/NJ (EPA/600/M4/82/020)

SAMPLE ID NO	LAB ID NO	SAMPLE LOCATION ROOM/AREA	MATERIAL FIELD DESCRIPTION	MATERIAL LAB DESCRIPTION	ASBESTOS DETECTED? (YES/NO)	%ASBESTOS DETECTED	TYPE OF ASBESTOS DETECTED	PREDOMINANT NON-ASBESTOS COMPONENTS	VERMICULITE DETECTED? (YES/NO)	%VERMICULITE DETECTED	COMMENTS
10-04-PS&S-03	80658	MAIN ROOF	ROOFING 3RD LAYER	HETEROGENEOUS BROWN FIBROUS	NO	NA	ND	CELLULOSE-50%, PERLITE-40%, OTHER-10%	NO	NA	
10-04-PS&S-07	80659	MAIN ROOF	ROOFING 3RD LAYER	HETEROGENEOUS BROWN FIBROUS	NO	NA	ND	CELLULOSE-50%, PERLITE-40%, OTHER-10%	NO	NA	
10-04-PS&S-16	80660	ENTRANCE MAIN ROOF	TRANSITE VENT PIPES	HETEROGENEOUS TAN FIBROUS	YES	22.5% 16.75%	CHRYSOTILE CROCIDOLITE	CELLULOSE-50%, CARBONATES-10%, OTHER-2.75%	NO	NA	
10-04-PS&S-17	80661	ENTRANCE MAIN ROOF	TRANSITE VENT PIPES	POSITIVE STOP	-	-	-	POSITIVE STOP	-	-	
10-04-PS&S-18	80662	2ND FLOOR WAREHOUSE	JOINT COMPOUND	HETEROGENEOUS WHITE NON-FIBROUS	NO	NA	ND	CARBONATES-95%, OTHER-5%	NO	NA	
10-04-PS&S-19	80663	2ND FLOOR OFFICE 200C	JOINT COMPOUND	HETEROGENEOUS WHITE NON-FIBROUS	NO	NA	ND	CARBONATES-95%, OTHER-5%	NO	NA	
10-04-PS&S-20	80664	2ND FLOOR WAREHOUSE	DRYWALL	HETEROGENEOUS WHITE FIBROUS	NO	NA	ND	FIBERGLASS-3%, CELLULOSE-15%, GYPSUM-80%, OTHER-2%	NO	NA	
10-04-PS&S-21	80665	2ND FLOOR WAREHOUSE OFFICE 200C	DRYWALL	HETEROGENEOUS WHITE FIBROUS	NO	NA	ND	FIBERGLASS-3%, CELLULOSE-15%, CARBONATES-10%, GYPSUM-70%, OTHER-2%	NO	NA	
10-04-PS&S-22	80666	2ND FLOOR WAREHOUSE OFFICE 200C	2X2' CEILING TILE	HETEROGENEOUS WHITE FIBROUS	NO	NA	ND	CELLULOSE-15% MINERAL WOOL-30%, CARBONATES-30%, PERLITE-20%, OTHER-5%	NO	NA	
10-04-PS&S-23	80667	2ND FLOOR WAREHOUSE OFFICE 200C	2X2' CEILING TILE	HETEROGENEOUS WHITE FIBROUS	NO	NA	ND	CELLULOSE-15% MINERAL WOOL-30%, CARBONATES-30%, PERLITE-30%, OTHER-5%	NO	NA	

NOTES: (1.) uncertainty associated with test method = +/- 0.5% by weight (3.) lab reports shall not be reproduced except in full, without written approval of the laboratory
(2.) results relate to items tested only
*ANALYTICAL RESULTS RELATE TO THE SAMPLE(S) AS RECEIVED BY THE LABORATORY ND = None Detected

Report Approved By: _____
Laboratory Director or Approved Representative

OMEGA ENVIRONMENTAL SERVICES, INC
280 Huyler Street, South Hackensack, NJ 07606 Tel: (201) 489 8700

BULK ASBESTOS LABORATORY ANALYSIS REPORT

[NYS DOH ELAP ID# 10504]

CLIENT NAME: PAULUS, SOKOLOWSKI & SARTOR, LLC.
ATTN: STEVE MARAVELIAS
1433 STATE HIGHWAY 34, SUITE A
WALL, NJ 07747

PROJECT/AREA: NEW JERSEY CITY UNIVERSITY
251 WEST SIDE AVENUE
JERSEY CITY, NY 07305

CLIENT ID: PSSSM010

PROJECT #: 17-1279
ANALYST: TG
TEST REQUESTED: BULK ASBESTOS BY PLM
METHOD #: EPA600/M4/82/020

DATE SAMPLED: 10/04/17
DATE RECEIVED: 10/05/17
DATE ANALYZED: 10/05/17
DATE OF REPORT: 10/05/17

**TEM-NOB ANALYSIS REQUIRED TO CONFIRM NEGATIVE PLM ANALYSIS IN NY/NJ (EPA/600/M4/82/020)*

SAMPLE ID NO	LAB ID NO	SAMPLE LOCATION ROOM/AREA	MATERIAL FIELD DESCRIPTION	MATERIAL LAB DESCRIPTION	ASBESTOS DETECTED? (YES/NO)	%ASBESTOS DETECTED	TYPE OF ASBESTOS DETECTED	PREDOMINANT NON-ASBESTOS COMPONENTS	VERMICULITE DETECTED? (YES/NO)	%VERMICULITE DETECTED	COMMENTS
10-04-PS&S-26	80668	2ND FLOOR WAREHOUSE	CINDERBLOCK	HETEROGENEOUS GREY NON-FIBROUS	NO	NA	ND	CARBONATES-45%, QUARTZ-55%	NO	NA	
10-04-PS&S-27	80669	2ND FLOOR WAREHOUSE	MORTAR	HETEROGENEOUS GREY NON-FIBROUS	NO	NA	ND	CARBONATES-40%, QUARTZ-60%	NO	NA	
10-04-PS&S-28	80670	2ND FLOOR STAIR CASE BY ROOF	CINDERBLOCK	HETEROGENEOUS TAN NON-FIBROUS	NO	NA	ND	CARBONATES-50%, QUARTZ-50%	NO	NA	
10-04-PS&S-29	80671	2ND FLOOR STAIR CASE BY ROOF	MORTAR	HETEROGENEOUS GREY NON-FIBROUS	NO	NA	ND	CARBONATES-55%, QUARTZ-45%	NO	NA	
10-04-PS&S-30	80672	2ND FLOOR LADIES BATHROOM	CINDERBLOCK	HETEROGENEOUS GREY NON-FIBROUS	NO	NA	ND	CARBONATES-55%, QUARTZ-45%	NO	NA	
10-04-PS&S-31	80673	2ND FLOOR LADIES BATHROOM	MORTAR	HETEROGENEOUS TAN NON-FIBROUS	NO	NA	ND	CARBONATES-40%, QUARTZ-60%	NO	NA	
10-04-PS&S-36	80674	2ND FLOOR OFFICE HALLWAY	2'X4' CEILING TILE	HETEROGENEOUS TAN NON-FIBROUS	NO	NA	ND	CELLULOSE-50%, MINERAL WOOL-15%, PERLITE-35%	NO	NA	
10-04-PS&S-37	80675	2ND FLOOR 214TC	2'X4' CEILING TILE	HETEROGENEOUS TAN NON-FIBROUS	NO	NA	ND	CELLULOSE-50%, MINERAL WOOL-15%, PERLITE-35%	NO	NA	
10-04-PS&S-38	80676	2ND FLOOR OFFICE 215	2'X4' CEILING TILE	HETEROGENEOUS TAN NON-FIBROUS	NO	NA	ND	CELLULOSE-40%, MINERAL WOOL-15%, CARBONATES-10%, PERLITE-35%	NO	NA	

NOTES: (1.) uncertainty associated with test method = +/- 0.5% by weight (3.) lab reports shall not be reproduced except in full, without written approval of the laboratory
(2.) results relate to items tested only
*ANALYTICAL RESULTS RELATE TO THE SAMPLE(S) AS RECEIVED BY THE LABORATORY ND = None Detected

Report Approved By: _____
Laboratory Director or Approved Representative

OMEGA ENVIRONMENTAL SERVICES, INC
280 Huyler Street, South Hackensack, NJ 07606 Tel: (201) 489 8700

LABORATORY TESTING SERVICES INC. 45-09 Greenpoint Ave. LIC, NY 11104 Phone: (718) 389 3470, Fax: (718) 389 3471

BULK ASBESTOS TEST REPORT

Client/Address: Omega Environmental/280 Huyler St., So. Hackensack, NJ 07606								**Project:** 251 West Side Ave., Jersey City **Project #:** 17-1279								
Laboratory ID: 17-10-050					**Date of Report:** 10/09/17			**Date of Analysis:** 10/08/17								
Client ID # Lab ID #	**Stereomicroscope Analysis**				**Sample Description**	**% Non-Fibrous Material**	**% Friable Results**		**% All**	**% PLM NOB Results**		**% TEM NOB Results**		**% TOTAL Asbestos**		
35	A	R	E		2nd Floor, Main Lobby, 12" x 12" Red Floor Tile				5.72	*		NAD		NAD		
	B	1	F													
17-10-050-19	C	198.4	G													
	D		H													
39	A	GR	E		2nd Floor, Staircase Landing, Window Glazing				7.74	*		NAD		NAD		
	B	1	F													
17-10-050-20	C	198.4	G													
	D		H													
48	A	GR	E		1st Floor, Dining Room 104, 12" x 12" FT Grey				2.66	*		NAD		NAD		
	B	1	F													
17-10-050-21	C	198.4	G													
	D		H													

BULK ASBESTOS LABORATORY ANALYSIS REPORT

[NYS DOH ELAP ID# 10504]

CLIENT NAME:	PAULUS, SOKOLOWSKI & SARTOR, LLC. ATTN: STEVE MARAVELIAS 1433 STATE HIGHWAY 34, SUITE A WALL, NJ 07747	**PROJECT/AREA:**	NEW JERSEY CITY UNIVERSITY 251 WEST SIDE AVENUE JERSEY CITY, NY 07305
CLIENT ID:	PSSSM010		
DATE SAMPLED:	10/05/17	**PROJECT #:**	17-1279
DATE RECEIVED:	10/05/17	**ANALYST:**	TG
DATE ANALYZED:	10/05/17	**TEST REQUESTED:**	BULK ASBESTOS BY PLM
DATE OF REPORT:	10/06/17	**METHOD #:**	EPA600/M4/82/020
		TEM-NOB ANALYSIS REQUIRED TO CONFIRM NEGATIVE PLM ANALYSIS IN NY/NJ (EPA/600/M4/82/020)	

SAMPLE ID NO	LAB ID NO	SAMPLE LOCATION ROOM/AREA	MATERIAL FIELD DESCRIPTION	MATERIAL LAB DESCRIPTION	ASBESTOS DETECTED? (YES/NO)	%ASBESTOS DETECTED	TYPE OF ASBESTOS DETECTED	PREDOMINANT NON-ASBESTOS COMPONENTS	VERMICULITE DETECTED? (YES/NO)	%VERMICULITE DETECTED	COMMENTS
10-05-PS&S-40	80677	1ST FLOOR 104A	FITTING DEBRIS	HETEROGENEOUS WHITE FIBROUS	YES	15.5% 52.0%	AMOSITE CHRYSOTILE	CARBONATES-30%, OTHER-1.5%	NO	NA	
10-05-PS&S-41	80678	1ST FLOOR 104A	TSI PIPE INSULATION	HETEROGENEOUS WHITE FIBROUS	YES	65.25%	CHRYSOTILE	CELLULOSE-4%, CARBONATES-40%, OTHER-0.75%	NO	NA	
10-05-PS&S-42	80679	1ST FLOOR 104A	TSI PIPE INSULATION	HETEROGENEOUS WHITE FIBROUS	YES	10.50% 45.75%	AMOSITE CHRYSOTILE	CELLULOSE-2%, CARBONATES-40%, OTHER-1.75%	NO	NA	
10-05-PS&S-43	80680	1ST FLOOR 104A 2 BATH	TSI PIPE INSULATION	POSITIVE STOP	-	-	-	POSITIVE STOP	-	-	
10-05-PS&S-44	80681	1ST FLOOR BATHROOM	GROUT	HETEROGENEOUS WHITE FIBROUS	NO	NA	ND	CELLULOSE-1%, CARBONATES-90%, QUARTZ-5%, OTHER-4%	NO	NA	
10-05-PS&S-45	80682	1ST FLOOR BATHROOM	GROUT	HETEROGENEOUS WHITE FIBROUS	YES	NA	ND	CELLULOSE-1%, CARBONATES-90%, QUARTZ-5%, OTHER-4%	NO	NA	
10-05-PS&S-46	80683	1ST FLOOR 104	FITTING	POSITIVE STOP	-	-	-	POSITIVE STOP	-	-	
10-05-PS&S-47	80684	1ST FLOOR 104	TSI PIPE INSULATION	POSITIVE STOP	-	-	-	POSITIVE STOP	-	-	
10-05-PS&S-48	80685	1ST FLOOR DINING ROOM 104	2X2' CEILING TILE	HETEROGENEOUS TAN FIBROUS	NO	NA	ND	CELLULOSE-35%, MINERAL WOOL-10%, CARBONATES-30%, PERLITE-20%, OTHER-5%	NO	NA	
10-05-PS&S-50	80686	1ST FLOOR BATHROOM	2X2' CEILING TILE	HETEROGENEOUS TAN FIBROUS	NO	NA	ND	CELLULOSE-35%, MINERAL WOOL-10%, CARBONATES-30%, PERLITE-20%, OTHER-5%	NO	NA	

NOTES: (1.) uncertainty associated with test method = +/- 0.5% by weight (3.) lab reports shall not be reproduced except in full, without written approval of the laboratory

(2.) results relate to items tested only

*ANALYTICAL RESULTS RELATE TO THE SAMPLE(S) AS RECEIVED BY THE LABORATORY ND = None Detected

Report Approved By: _____

Laboratory Director or Approved Representative

OMEGA ENVIRONMENTAL SERVICES, INC

280 Huyler Street, South Hackensack, NJ 07606 Tel: (201) 489 8700

OMEGA ENVIRONMENTAL SERVICES, INC
280 Huyler Street South Hackensack, NJ 07606
T 201.489.8700 F 201.342.5412
website www.omega-env.com

CHAIN OF CUSTODY/ANALYSIS REQUEST FOR ASBESTOS BULK SAMPLES

17-10-050

email results to: lab@omega-env.com and albertof@omega-env.com

Project Name:	PS&S, LLC	Turnaround Time Requested: 24 Hours	
Project #:	17-1279	Total # of Samples:	
Site Location:	NJ City University 251 West side Ave Jersey City NJ 07305	Analyze by each individual layer or as indicated	
Sampled By:	Alberto Fajardo – License # 02-07292	Analyze all samples without 1% positive stop	
Date Sampled:	10/4/17	Stop after 1% positive for each homogeneous area	X

Sample #	Lab ID #	Floor/Level	Location (Room, Area, etc)	HA#	Description of Homogeneous Material (type, color, size, etc)	General Condition	Quantity	Estimated # of layers	Analysis Requested: PLM	PLM NOB	TEM NOB	Other Analysis	Notes and Comments
(1) 01		Roof	Main Roof	01	Roofing Bottom Layer	NUD	10,000	4			✓		(-) NAD
(2) 02				02	2nd Layer			4			✓		(-) NAD
03				03	3rd Layer			4	✓				
(3) 04				04	Roofing Top Layer			4			✓		(-) NAD
(4) 05				01	Roofing Bottom Layer			4			✓		(-) NAD
(5) 06				02	2nd			4			✓		(-) NAD
07				03	3rd			4	✓				
(6) 08				04	Top			4			✓		(-) NAD
(7) 09				05	Parapet Wall Flashing		1,200 SF	1			✓		3" Wall (+) 7.53% CH
(8) 10				05				1			✓		NA

Relinquished By & Company:	A. Fajardo	Received By Company:	M. Young MAS
Date & Time	10/6/17	Date & Time:	10/6/17 1020

Analyzed By: E. Loukianou
Date & Time: Elnf 10.8.17

Omega Environmental Services, Inc. 280 Huyler Street - South Hackensack, NJ 07606 - Tel: (201) 489-8700 - Fax: (201)342-5412

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17-10-050

CHAIN OF CUSTODY/ANALYSIS REQUEST FOR ASBESTOS BULK SAMPLES

email results to: lab@omega-env.com and albertof@omega-env.com

Project Name:	PS&S LLC	Turnaround Time Requested: 24 Hours	
Project #:	17-1279	Total # of Samples:	
Site Location:	NJ city University 251 West side Ave Jersey City NJ 07301	Analyze by each individual layer or as indicated	
Sampled By:	Alberto Fajardo – License # 02-07292	Analyze all samples without 1" positive stop	
Date Sampled:	10/4/17	Stop after 1" positive for each homogeneous area	X

Sample #	Lab ID #	Floor/Level	Location (Room, Area, etc)	HA#	Description of Homogeneous Material (type, color, size, etc)	General Condition	Quantity	Estimated # of layers	Analysis Requested: PLM	PLM-NOB	TEM-NOB	Other Analysis	Notes and Comments
(9) 11		Roof	Entrance Main Roof	06	Base Flashing	D	120SF	1			✓		(+) 10.13% CH
(10) 12		↓	↓	07	Door Caulking	D	36x80"	1			✓		(+) 6.02% CH 2.41% Anth
(11) 13				08	Vents Caulking	D	26LF	1			✓		(-) NAD
(12) 14				09	Pitch Pockets	NVD	24SF	1			✓		(+) 1.79% CH
(13) 15				10	Base Entrance Caulking	D	60LF	1			✓		For Roof & Base Flashing (+) 1.93% CH
16				11	Transite Vent Pipes	D		1	✓				
17				11	↓	D		1	✓				
18		2nd	Warehouse	12	Joint Compound	NVD	T.O	1	✓				
19		↓	Office/Room	12	↓	↓	↓	1	✓				
20		↓	Warehouse	13	Drywall	↓	↓	1	✓				

Relinquished By & Company: Date & Time	A. Fajardo 10/4/17	Received By Company: Date & Time	M Young 10/6/17 1020

Analyzed By: E. Loukianova
Date & Time: Client 10 8 17

OMEGA ENVIRONMENTAL SERVICES, INC
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website www.omega-env.com

17-10-050

CHAIN OF CUSTODY/ANALYSIS REQUEST FOR ASBESTOS BULK SAMPLES

email results to: lab@omega-env.com and albertof@omega-env.com

Project Name:	PS&S LLC	Turnaround Time Requested: 24 Hours	
Project #:	17-1279	Total # of Samples:	
Site Location:	NJ city University 251 West side Ave Jersey City NJ 07306	Analyze by each individual layer or as indicated	
Sampled By:	Alberto Fajardo – License # 02-07292	Analyze all samples without 1" positive stop	
Date Sampled:	10/4/17	Stop after 1" positive for each homogeneous area	X

Sample #	Lab ID #	Floor/Level	Location (Room, Area, etc)	HA#	Description of Homogeneous Material (type, color, size, etc)	General Condition	Quantity	Estimated # of Layers	Analysis Requested: PLM	PLM NOB	TEM NOB	Other Analysis	Notes and Comments
21		2nd	Warehouse Office 200C	13	Drywall	NVD	T.O	1	✓				
22		↓	↓	14	2'x2' Ceiling Tile	↓		1	✓				
23		↓	↓	14	↓	↓		1	✓				
(14) 24		↓	Office 200C	15	9"x9" Black Floor Tile	NVD		1			✓		Composited with (15) NAD
(15) 25		↓	↓	15	↓	↓		1			✓		↓
26		↓	Warehouse	16	Cinder Block	NVD	T.O	1	✓				
27		↓	↓	17	Mortar	↓	↓	1	✓				
28		↓	Stair Case Lobby	16	Cinder Block	↓	↓	1	✓				
29		↓	↓	17	Mortar	↓	↓	1	✓				
30		↓	Lobby Bathroom	16	Cinder Block	↓	↓	1	✓				

Relinquished By & Company:	A. Fajardo	Received By Company:	M. Young
Date & Time	10/4/17	Date & Time:	10/6/17 1020

Analyzed By: E. Colchamiro
Date & Time: 10/8/17

OMEGA ENVIRONMENTAL SERVICES, INC
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CHAIN OF CUSTODY/ANALYSIS REQUEST FOR ASBESTOS BULK SAMPLES

17-10-050

email results to: lab@omega-env.com and albertof@omega-env.com

Project Name:	PS&S, LLC	Turnaround Time Requested: 24 Hours	
Project #:	17-1279	Total # of Samples:	
Site Location:	NJ city University 251 West side Ave Jersey City NJ 07306	Analyze by each individual layer or as indicated	
Sampled By:	Alberto Fajardo – License # 02-07292	Analyze all samples without 1" positive stop	
Date Sampled:	10/4/17	Stop after 1" positive for each homogeneous area	X

Sample #	Lab ID #	Floor/Level	Location (Room, Area, etc)	Hits	Description of Homogeneous Material (type, color, size, etc)	General Condition	Quantity	Estimated # of Layers	Analysis Requested: PLM	PLM NOB	TEM	TEM NOB	Other Analysis	Notes and Comments
31		2nd	Lobby Bathroom	17	Mastic	NVD	T.O	1	✓					
(16) 32			Main Lobby	18	Mastic under 12"x12" FT			1			✓			(-) NAD
(17) 33				19	12"x12" Red Floor tile			1			✓			(-) NAD
(18) 34				18	Mastic under 12"x12" FT			1			✓			(-) NAD
(19) 35				19	12"x12" Red Floor tile			1			✓			(-) NAD
36			Office Hallway	20	2'x4' ceiling tile			1	✓					
37			214 TC	20				1	✓					
38			Office 215	20				1	✓					
(20) 39			Stairwell Landing		Window Glazing			1			✓			(-) NAD
AP														

Relinquished By & Company:	A. Fajardo	Received By Company:	M. Young (NAD)
Date & Time:	10/4/17	Date & Time:	10/06/17 @ 1020

Analyzed By: E. Loukianova
Date & Time: PLM 10.8.17

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CHAIN OF CUSTODY/ANALYSIS REQUEST FOR ASBESTOS BULK SAMPLES

17-10-050

email results to: lab@omega-env.com and albertof@omega-env.com

Project Name:	PS&S LLC	Turnaround Time Requested: 24 Hours	
Project #:	17-1279	Total # of Samples: 10	
Site Location:	NJ City University 251 West side Ave Jersey City NJ 07305	Analyze by each individual layer or as indicated	
Sampled By:	Alberto Fajardo – License # 02-07292	Analyze all samples without 1st positive stop	
Date Sampled:	10/4/17	Stop after 1st positive for each homogeneous area	X

Sample #	Lab ID #	Floor/Level	Location (Room, Area, etc)	HA#	Description of Homogeneous Material (type, color, size, etc)	General Condition	Quantity	Estimated # of layers	Analysis Requested: PLM	PLM-NOB	TEM-NOB	Other Analysis	Notes and Comments
HD		1st	104 A	22	Fitting Debris	SD	4 ea	1	✓				Above 2'x2' CT
41			↓	23	TSI Pipe Insulation	↓	14 LF	1	✓				
42			↓	24	TSI Pipe Insulation	↓	30Z	1	✓				
43			104 A-2 Bath	23	" "	↓	15LF	1	✓				
44			Bathroom	25	Grout	D		1	✓				7'x6'x4' high
45			↓	25	↓	D		1	✓				
46			104	22	Fitting	D	6	1	✓				
47			↓	23	TSI Pipe Insulation	D	20 LF	1	✓				
(21) 48			Dining Room 104	26	12x12FT Grey	NOD		1			✓		(-) ACM
49			↓	27	2'x2' ceiling tile	↓	0.0		✓				

Relinquished By & Company: Date & Time	A. Fajardo
Received By Company: Date & Time:	M. Young 10/6/17 1020

Analyzed By: E Louliano
Date & Time: EL 10.8.17

B. PCBs

B1. Laboratory Analytical Reports

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: 17-1279
Pace Project No.: 7032138

Sample: 1279-C1 **Lab ID: 7032138001** Collected: 10/04/17 00:00 Received: 10/04/17 12:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3540C							
PCB-1016 (Aroclor 1016)	<198	ug/kg	198	1	10/10/17 14:31	10/11/17 18:19	12674-11-2	
PCB-1221 (Aroclor 1221)	<198	ug/kg	198	1	10/10/17 14:31	10/11/17 18:19	11104-28-2	
PCB-1232 (Aroclor 1232)	<198	ug/kg	198	1	10/10/17 14:31	10/11/17 18:19	11141-16-5	
PCB-1242 (Aroclor 1242)	<198	ug/kg	198	1	10/10/17 14:31	10/11/17 18:19	53469-21-9	
PCB-1248 (Aroclor 1248)	<198	ug/kg	198	1	10/10/17 14:31	10/11/17 18:19	12672-29-6	
PCB-1254 (Aroclor 1254)	<198	ug/kg	198	1	10/10/17 14:31	10/11/17 18:19	11097-69-1	
PCB-1260 (Aroclor 1260)	<198	ug/kg	198	1	10/10/17 14:31	10/11/17 18:19	11096-82-5	
PCB-1262 (Aroclor 1262)	<198	ug/kg	198	1	10/10/17 14:31	10/11/17 18:19	37324-23-5	
PCB-1268 (Aroclor 1268)	<198	ug/kg	198	1	10/10/17 14:31	10/11/17 18:19	11100-14-4	
PCB, Total	<198	ug/kg	198	1	10/10/17 14:31	10/11/17 18:19	1336-36-3	
Surrogates								
Tetrachloro-m-xylene (S)	74	%.	65-125	1	10/10/17 14:31	10/11/17 18:19	877-09-8	
Decachlorobiphenyl (S)	109	%.	75-125	1	10/10/17 14:31	10/11/17 18:19	2051-24-3	

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: 17-1279
Pace Project No.: 7032138

Sample: 1279-C2 **Lab ID: 7032138002** Collected: 10/04/17 00:00 Received: 10/04/17 12:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3540C							
PCB-1016 (Aroclor 1016)	<198	ug/kg	198	1	10/10/17 14:31	10/11/17 18:34	12674-11-2	
PCB-1221 (Aroclor 1221)	<198	ug/kg	198	1	10/10/17 14:31	10/11/17 18:34	11104-28-2	
PCB-1232 (Aroclor 1232)	<198	ug/kg	198	1	10/10/17 14:31	10/11/17 18:34	11141-16-5	
PCB-1242 (Aroclor 1242)	<198	ug/kg	198	1	10/10/17 14:31	10/11/17 18:34	53469-21-9	
PCB-1248 (Aroclor 1248)	<198	ug/kg	198	1	10/10/17 14:31	10/11/17 18:34	12672-29-6	
PCB-1254 (Aroclor 1254)	<198	ug/kg	198	1	10/10/17 14:31	10/11/17 18:34	11097-69-1	
PCB-1260 (Aroclor 1260)	<198	ug/kg	198	1	10/10/17 14:31	10/11/17 18:34	11096-82-5	
PCB-1262 (Aroclor 1262)	<198	ug/kg	198	1	10/10/17 14:31	10/11/17 18:34	37324-23-5	
PCB-1268 (Aroclor 1268)	<198	ug/kg	198	1	10/10/17 14:31	10/11/17 18:34	11100-14-4	
PCB, Total	<198	ug/kg	198	1	10/10/17 14:31	10/11/17 18:34	1336-36-3	
Surrogates								
Tetrachloro-m-xylene (S)	107	%.	65-125	1	10/10/17 14:31	10/11/17 18:34	877-09-8	
Decachlorobiphenyl (S)	106	%.	75-125	1	10/10/17 14:31	10/11/17 18:34	2051-24-3	

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: 17-1279
Pace Project No.: 7032138

Sample: 1279-C3 **Lab ID: 7032138003** Collected: 10/04/17 00:00 Received: 10/04/17 12:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3540C							
PCB-1016 (Aroclor 1016)	**<1940**	ug/kg	1940	10	10/10/17 14:31	10/11/17 18:03	12674-11-2	
PCB-1221 (Aroclor 1221)	**<1940**	ug/kg	1940	10	10/10/17 14:31	10/11/17 18:03	11104-28-2	
PCB-1232 (Aroclor 1232)	**<1940**	ug/kg	1940	10	10/10/17 14:31	10/11/17 18:03	11141-16-5	
PCB-1242 (Aroclor 1242)	**<1940**	ug/kg	1940	10	10/10/17 14:31	10/11/17 18:03	53469-21-9	
PCB-1248 (Aroclor 1248)	**<1940**	ug/kg	1940	10	10/10/17 14:31	10/11/17 18:03	12672-29-6	
PCB-1254 (Aroclor 1254)	**<1940**	ug/kg	1940	10	10/10/17 14:31	10/11/17 18:03	11097-69-1	
PCB-1260 (Aroclor 1260)	**<1940**	ug/kg	1940	10	10/10/17 14:31	10/11/17 18:03	11096-82-5	
PCB-1262 (Aroclor 1262)	**<1940**	ug/kg	1940	10	10/10/17 14:31	10/11/17 18:03	37324-23-5	
PCB-1268 (Aroclor 1268)	**<1940**	ug/kg	1940	10	10/10/17 14:31	10/11/17 18:03	11100-14-4	
PCB, Total	**<1940**	ug/kg	1940	10	10/10/17 14:31	10/11/17 18:03	1336-36-3	
Surrogates								
Tetrachloro-m-xylene (S)	76	%.	65-125	10	10/10/17 14:31	10/11/17 18:03	877-09-8	D3
Decachlorobiphenyl (S)	96	%.	75-125	10	10/10/17 14:31	10/11/17 18:03	2051-24-3	

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: 17-1279
Pace Project No.: 7032138

QC Batch: 501622 Analysis Method: EPA 8082A
QC Batch Method: EPA 3540C Analysis Description: 8082A GCS PCB
Associated Lab Samples: 7032138001, 7032138002, 7032138003

METHOD BLANK: 2726332 Matrix: Solid
Associated Lab Samples: 7032138001, 7032138002, 7032138003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<33.0	33.0	10/11/17 17:33	
PCB-1221 (Aroclor 1221)	ug/kg	<33.0	33.0	10/11/17 17:33	
PCB-1232 (Aroclor 1232)	ug/kg	<33.0	33.0	10/11/17 17:33	
PCB-1242 (Aroclor 1242)	ug/kg	<33.0	33.0	10/11/17 17:33	
PCB-1248 (Aroclor 1248)	ug/kg	<33.0	33.0	10/11/17 17:33	
PCB-1254 (Aroclor 1254)	ug/kg	<33.0	33.0	10/11/17 17:33	
PCB-1260 (Aroclor 1260)	ug/kg	<33.0	33.0	10/11/17 17:33	
PCB-1262 (Aroclor 1262)	ug/kg	<33.0	33.0	10/11/17 17:33	
PCB-1268 (Aroclor 1268)	ug/kg	<33.0	33.0	10/11/17 17:33	
Decachlorobiphenyl (S)	%.	99	75-125	10/11/17 17:33	
Tetrachloro-m-xylene (S)	%.	91	65-125	10/11/17 17:33	

LABORATORY CONTROL SAMPLE & LCSD: 2726333 2726334

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	667	620	599	93	90	48-125	3	20	
PCB-1260 (Aroclor 1260)	ug/kg	667	638	620	96	93	63-125	3	20	
Decachlorobiphenyl (S)	%.				98	81	75-125			
Tetrachloro-m-xylene (S)	%.				89	83	65-125			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALIFIERS

Project: 17-1279
Pace Project No.: 7032138

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 17-1279
Pace Project No.: 7032138

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7032138001	**1279-C1**	EPA 3540C	501622	EPA 8082A	501981
7032138002	**1279-C2**	EPA 3540C	501622	EPA 8082A	501981
7032138003	**1279-C3**	EPA 3540C	501622	EPA 8082A	501981

WO#:7032138

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quest Document
ust be completed accurately.

Page: of

Section A Required Client Information:		Section B Required Project Information:		Invoice Information:	
Company:	Omega Environmental	Report To:	Lab@omega-env.com	Attention:	
Address:	280 Huyler Street	Copy To:	davide@omega-env.com	Company Name:	Omega Environemtnal
	S. Hackensack, NJ 07606			Address:	
Email To:	Lab@Omega-env.com	Purchase Order No.:		Pace Quote Reference:	
Phone:	201-489-8700 Fax:	Project Name:	PS&S NJCU	Pace Project Manager:	
Requested Due Date/TAT:	8 Day TAT	Project Number:	17-1279	Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NJ

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information: SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX / CODE: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: PCBS IN CAULK	TOTAL LEAD AND CHRC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	1279-C1		OT	G	10/4/17					1	X									X				001
2	1279-C2		OT	G	10/4/17					1	X									X				002
3	1279-C3		OT	G	10/4/17					1	X									X				003
4	1279-P1		OT	G	10/4/17					1	X										X			
5	1279-P2		OT	G	10/4/17					1	X										X			
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
C1 TO C3 CAULK SAMPLES; P1 AND P2 PAINT SAMPLES	DAVID EKSTRAND	10/4/17					
					10/4/17	12:00	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: DAVID EKSTRAND

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 10/4/17

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.06, 12-Oct-2007

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: 17-1279-PAINT CHIPS
Pace Project No.: 7032140

Sample: 1279-P1 **Lab ID: 7032140001** Collected: 10/04/17 00:00 Received: 10/04/17 12:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3545A							
PCB-1016 (Aroclor 1016)	**<251**	ug/kg	251	1	10/10/17 19:08	10/11/17 20:32	12674-11-2	
PCB-1221 (Aroclor 1221)	**<509**	ug/kg	509	1	10/10/17 19:08	10/11/17 20:32	11104-28-2	
PCB-1232 (Aroclor 1232)	**<251**	ug/kg	251	1	10/10/17 19:08	10/11/17 20:32	11141-16-5	
PCB-1242 (Aroclor 1242)	**671**	ug/kg	251	1	10/10/17 19:08	10/11/17 20:32	53469-21-9	
PCB-1248 (Aroclor 1248)	**<251**	ug/kg	251	1	10/10/17 19:08	10/11/17 20:32	12672-29-6	
PCB-1254 (Aroclor 1254)	**<251**	ug/kg	251	1	10/10/17 19:08	10/11/17 20:32	11097-69-1	
PCB-1260 (Aroclor 1260)	**<251**	ug/kg	251	1	10/10/17 19:08	10/11/17 20:32	11096-82-5	
Surrogates								
Tetrachloro-m-xylene (S)	52	%.	30-150	1	10/10/17 19:08	10/11/17 20:32	877-09-8	
Decachlorobiphenyl (S)	81	%.	30-150	1	10/10/17 19:08	10/11/17 20:32	2051-24-3	
6010 MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3050B							
Chromium	**<5.2**	mg/kg	5.2	1	10/10/17 13:34	10/12/17 03:25	7440-47-3	
Lead	**2.7**	mg/kg	2.6	1	10/10/17 13:34	10/12/17 03:25	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2216-92M							
Percent Moisture	**1.3**	%	0.10	1		10/09/17 21:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: 17-1279-PAINT CHIPS
Pace Project No.: 7032140

Sample: 1279-P2 **Lab ID: 7032140002** Collected: 10/04/17 00:00 Received: 10/04/17 12:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3545A							
PCB-1016 (Aroclor 1016)	**<242**	ug/kg	242	1	10/10/17 19:08	10/11/17 20:19	12674-11-2	
PCB-1221 (Aroclor 1221)	**<492**	ug/kg	492	1	10/10/17 19:08	10/11/17 20:19	11104-28-2	
PCB-1232 (Aroclor 1232)	**<242**	ug/kg	242	1	10/10/17 19:08	10/11/17 20:19	11141-16-5	
PCB-1242 (Aroclor 1242)	**743**	ug/kg	242	1	10/10/17 19:08	10/11/17 20:19	53469-21-9	
PCB-1248 (Aroclor 1248)	**<242**	ug/kg	242	1	10/10/17 19:08	10/11/17 20:19	12672-29-6	
PCB-1254 (Aroclor 1254)	**2380**	ug/kg	242	1	10/10/17 19:08	10/11/17 20:19	11097-69-1	
PCB-1260 (Aroclor 1260)	**<242**	ug/kg	242	1	10/10/17 19:08	10/11/17 20:19	11096-82-5	
Surrogates								
Tetrachloro-m-xylene (S)	58	%.	30-150	1	10/10/17 19:08	10/11/17 20:19	877-09-8	
Decachlorobiphenyl (S)	90	%.	30-150	1	10/10/17 19:08	10/11/17 20:19	2051-24-3	
6010 MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3050B							
Chromium	**<4.8**	mg/kg	4.8	1	10/10/17 13:34	10/12/17 03:30	7440-47-3	
Lead	**19.1**	mg/kg	2.4	1	10/10/17 13:34	10/12/17 03:30	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2216-92M							
Percent Moisture	**1.3**	%	0.10	1		10/09/17 21:00		

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 17-1279-PAINT CHIPS
Pace Project No.: 7032140

QC Batch: 42419
QC Batch Method: EPA 3050B
Analysis Method: EPA 6010C
Analysis Description: 6010 MET
Associated Lab Samples: 7032140001, 7032140002

METHOD BLANK: 197842
Matrix: Solid
Associated Lab Samples: 7032140001, 7032140002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium	mg/kg	<0.50	0.50	10/12/17 00:41	
Lead	mg/kg	<0.25	0.25	10/12/17 00:41	

LABORATORY CONTROL SAMPLE: 197843

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	mg/kg	103	104	101	80-120	
Lead	mg/kg	140	143	102	80-120	

MATRIX SPIKE SAMPLE: 197845

Parameter	Units	7031169026 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium	mg/kg	29.7	16.3	38.1	52	75-125	M1
Lead	mg/kg	134	32.5	148	44	75-125	M1

SAMPLE DUPLICATE: 197844

Parameter	Units	7031169026 Result	Dup Result	RPD	Qualifiers
Chromium	mg/kg	29.7	25.0	17	
Lead	mg/kg	134	161	18	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: 17-1279-PAINT CHIPS
Pace Project No.: 7032140

QC Batch: 42488
QC Batch Method: EPA 3545A
Analysis Method: EPA 8082A
Analysis Description: 8082 GCS PCB
Associated Lab Samples: 7032140001, 7032140002

METHOD BLANK: 198303
Matrix: Solid
Associated Lab Samples: 7032140001, 7032140002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<33.0	33.0	10/11/17 19:53	
PCB-1221 (Aroclor 1221)	ug/kg	<67.0	67.0	10/11/17 19:53	
PCB-1232 (Aroclor 1232)	ug/kg	<33.0	33.0	10/11/17 19:53	
PCB-1242 (Aroclor 1242)	ug/kg	<33.0	33.0	10/11/17 19:53	
PCB-1248 (Aroclor 1248)	ug/kg	<33.0	33.0	10/11/17 19:53	
PCB-1254 (Aroclor 1254)	ug/kg	<33.0	33.0	10/11/17 19:53	
PCB-1260 (Aroclor 1260)	ug/kg	<33.0	33.0	10/11/17 19:53	
Decachlorobiphenyl (S)	%.	111	30-150	10/11/17 19:53	
Tetrachloro-m-xylene (S)	%.	73	30-150	10/11/17 19:53	

LABORATORY CONTROL SAMPLE: 198304

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	167	133	80	50-136	
PCB-1260 (Aroclor 1260)	ug/kg	167	197	118	45-154	
Decachlorobiphenyl (S)	%.			113	30-150	
Tetrachloro-m-xylene (S)	%.			72	30-150	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: 17-1279-PAINT CHIPS
Pace Project No.: 7032140

QC Batch: 42304
QC Batch Method: ASTM D2216-92M
Analysis Method: ASTM D2216-92M
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 7032140001, 7032140002

SAMPLE DUPLICATE: 197386

Parameter	Units	7032204001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	13.8	14.7	6	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALIFIERS

Project: 17-1279-PAINT CHIPS
Pace Project No.: 7032140

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 17-1279-PAINT CHIPS
Pace Project No.: 7032140

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7032140001	1279-P1	EPA 3545A	42488	EPA 8082A	42489
7032140002	1279-P2	EPA 3545A	42488	EPA 8082A	42489
7032140001	1279-P1	EPA 3050B	42419	EPA 6010C	42469
7032140002	1279-P2	EPA 3050B	42419	EPA 6010C	42469
7032140001	1279-P1	ASTM D2216-92M	42304		
7032140002	1279-P2	ASTM D2216-92M	42304		

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WO#:7032140

7032140

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must be completed accurately.

Page: of

Section A Required Client Information:		Section B Required Project Information:		Attention:	
Company:	Omega Environmental	Report To:	Lab@omega-env.com	Company Name:	Omega Environemtnal
Address:	280 Huyler Street	Copy To:	davide@omega-env.com	Address:	
	S. Hackensack, NJ 07606			Pace Quote Reference:	
Email To:	Lab@Omega-env.com	Purchase Order No.:		Pace Project Manager:	
Phone:	201-489-8700 Fax:	Project Name:	PS&S NJCU	Pace Profile #:	
Requested Due Date/TAT:	5 Day TAT	Project Number:	17-1279		

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER
Site Location STATE: NJ

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information: SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX / CODE: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE ENDIGRAB DATE	COMPOSITE ENDIGRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: PCBS IN CAULK	TOTAL LEAD AND CHRC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	1279-C1		OT	G	10/4/17					1	X									X				
2	1279-C2		OT	G	10/4/17					1	X									X				
3	1279-C3		OT	G	10/4/17					1	X									X				
4	1279-P1		OT	G	10/4/17					1	X									X	X			001
5	1279-P2		OT	G	10/4/17					1	X									X	X			002
6																								
7																								
8																								
9										1														
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
C1 TO C3 CAULK SAMPLES; P1 AND P2 PAINT SAMPLES	DAVID EKSTRAND	10/4/17					
					10/4/17	12:00	

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SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: DAVID EKSTRAND
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 10/4/17

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.0% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.08, 12-Oct-2007

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: PCB/PB PAINT CHIPS 10/5
Pace Project No.: 7032159

Sample: 1279-P3 **Lab ID: 7032159001** Collected: 10/05/17 00:00 Received: 10/06/17 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3545A							
PCB-1016 (Aroclor 1016)	**<243**	ug/kg	243	1	10/10/17 19:08	10/11/17 20:44	12674-11-2	
PCB-1221 (Aroclor 1221)	**<493**	ug/kg	493	1	10/10/17 19:08	10/11/17 20:44	11104-28-2	
PCB-1232 (Aroclor 1232)	**<243**	ug/kg	243	1	10/10/17 19:08	10/11/17 20:44	11141-16-5	
PCB-1242 (Aroclor 1242)	**372**	ug/kg	243	1	10/10/17 19:08	10/11/17 20:44	53469-21-9	
PCB-1248 (Aroclor 1248)	**<243**	ug/kg	243	1	10/10/17 19:08	10/11/17 20:44	12672-29-6	
PCB-1254 (Aroclor 1254)	**1440**	ug/kg	243	1	10/10/17 19:08	10/11/17 20:44	11097-69-1	
PCB-1260 (Aroclor 1260)	**<243**	ug/kg	243	1	10/10/17 19:08	10/11/17 20:44	11096-82-5	
Surrogates								
Tetrachloro-m-xylene (S)	58	%.	30-150	1	10/10/17 19:08	10/11/17 20:44	877-09-8	
Decachlorobiphenyl (S)	88	%.	30-150	1	10/10/17 19:08	10/11/17 20:44	2051-24-3	
6010 MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3050B							
Chromium	**188**	mg/kg	4.7	1	10/12/17 11:28	10/16/17 16:11	7440-47-3	
Lead	**2700**	mg/kg	2.3	1	10/12/17 11:28	10/16/17 16:11	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2216-92M							
Percent Moisture	**1.1**	%	0.10	1		10/09/17 15:05		

Pace Analytical Services, LLC
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(631)694-3040

QUALITY CONTROL DATA

Project: PCB/PB PAINT CHIPS 10/5
Pace Project No.: 7032159

QC Batch: 42755
QC Batch Method: EPA 3050B
Analysis Method: EPA 6010C
Analysis Description: 6010 MET
Associated Lab Samples: 7032159001

METHOD BLANK: 199507 Matrix: Solid
Associated Lab Samples: 7032159001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium	mg/kg	<0.50	0.50	10/13/17 20:22	
Lead	mg/kg	<0.25	0.25	10/13/17 20:22	

LABORATORY CONTROL SAMPLE: 199508

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	mg/kg	110	99.9	91	80-120	
Lead	mg/kg	149	134	90	80-120	

MATRIX SPIKE SAMPLE: 199510

Parameter	Units	7031392021 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium	mg/kg	27.5	14.4	36.4	62	75-125	M1
Lead	mg/kg	34.1	28.8	59.2	87	75-125	

SAMPLE DUPLICATE: 199509

Parameter	Units	7031392021 Result	Dup Result	RPD	Qualifiers
Chromium	mg/kg	27.5	25.2	8	
Lead	mg/kg	34.1	53.1	44	D6

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: PCB/PB PAINT CHIPS 10/5
Pace Project No.: 7032159

QC Batch: 42488
QC Batch Method: EPA 3545A
Analysis Method: EPA 8082A
Analysis Description: 8082 GCS PCB
Associated Lab Samples: 7032159001

METHOD BLANK: 198303
Matrix: Solid
Associated Lab Samples: 7032159001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<33.0	33.0	10/11/17 19:53	
PCB-1221 (Aroclor 1221)	ug/kg	<67.0	67.0	10/11/17 19:53	
PCB-1232 (Aroclor 1232)	ug/kg	<33.0	33.0	10/11/17 19:53	
PCB-1242 (Aroclor 1242)	ug/kg	<33.0	33.0	10/11/17 19:53	
PCB-1248 (Aroclor 1248)	ug/kg	<33.0	33.0	10/11/17 19:53	
PCB-1254 (Aroclor 1254)	ug/kg	<33.0	33.0	10/11/17 19:53	
PCB-1260 (Aroclor 1260)	ug/kg	<33.0	33.0	10/11/17 19:53	
Decachlorobiphenyl (S)	%.	111	30-150	10/11/17 19:53	
Tetrachloro-m-xylene (S)	%.	73	30-150	10/11/17 19:53	

LABORATORY CONTROL SAMPLE: 198304

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	167	133	80	50-136	
PCB-1260 (Aroclor 1260)	ug/kg	167	197	118	45-154	
Decachlorobiphenyl (S)	%.			113	30-150	
Tetrachloro-m-xylene (S)	%.			72	30-150	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: PCB/PB PAINT CHIPS 10/5
Pace Project No.: 7032159

QC Batch: 42270
QC Batch Method: ASTM D2216-92M
Analysis Method: ASTM D2216-92M
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 7032159001

SAMPLE DUPLICATE: 197236

Parameter	Units	7032194018 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	6.7	6.0	12	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALIFIERS

Project: PCB/PB PAINT CHIPS 10/5
Pace Project No.: 7032159

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PCB/PB PAINT CHIPS 10/5
Pace Project No.: 7032159

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7032159001	1279-P3	EPA 3545A	42488	EPA 8082A	42489
7032159001	1279-P3	EPA 3050B	42755	EPA 6010C	42792
7032159001	1279-P3	ASTM D2216-92M	42270		

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: of

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Omega Environmental	Report To:	Lab@omega-env.com	Attention:	
Address:	280 Huyler Street	Copy To:	davide@omega-env.com	Company Name:	Omega Environemtnal
	S. Hackensack, NJ 07606			Address:	
Email To:	Lab@Omega-env.com	Purchase Order No.:		Pace Quote Reference:	
Phone:	201-489-8700 Fax:	Project Name:	PS&S NJCU	Pace Project Manager:	
Requested Due Date/TAT:	5 Day TAT	Project Number:	17-1279	Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NJ

WO#:7032159

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information: SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX / CODE: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE ENDIDRAB DATE	COMPOSITE ENDIDRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	PCBS IN CAULK	TOTAL LEAD AND CHRO	Res	Pace Project No./ Lab I.D.
1	1279-P13		OT	G	10/5/17					1	X									x	x		
2																							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PAINT SAMPLE	DAVID EKSTRAND	10/5/17			10/6/17	09:20	21.3	N	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: DAVID EKSTRAND

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 10/5/17

Page 9 of 10

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.09, 12-Oct-2007

C. XRF

C1. Laboratory Analytical Reports

Reading No	Date	Room	Wall	Component	Substrate	Paint Condition	Results	PbC
1	10/4/2017							3.98
2	10/4/2017	calibration	*	*	*	*	Positive	3.7
3	10/4/2017	calibration	*	*	*	*	Positive	1.8
4	10/4/2017	calibration	*	*	*	*	Positive	3.8
5	10/4/2017	calibration	*	*	*	*	Negative	0
6	10/4/2017	calibration	*	*	*	*	Negative	0
7	10/4/2017	calibration	*	*	*	*	Negative	0
8	10/4/2017	room 204	A	Door	Wood	Fair	Negative	0
9	10/4/2017	room 204	A	Door Molding	Metal	Intact	Negative	0
10	10/4/2017	room 204	A	Wall	Brick	Intact	Negative	0
11	10/4/2017	room 204	A	Electrical conduit	Metal	Intact	Negative	0
12	10/4/2017	room 204	B	Wall	Brick	Intact	Negative	0
13	10/4/2017	room 204	B	Wall	Drywall	Intact	Negative	0
14	10/4/2017	room 204	B	Window lintel	Metal	Intact	Negative	0.16
15	10/4/2017	room 204	B	Window lintel	Metal	Intact	Negative	0.7
16	10/4/2017	room 204	C	Window Sill	Brick	Intact	Negative	0.02
17	10/4/2017	room 204	C	Wall	Brick	Intact	Negative	0.01
18	10/4/2017	room 204	C	Wall	Brick	Intact	Negative	0
19	10/4/2017	room 204	D	Wall	Drywall	Intact	Negative	0
20	10/4/2017	room 204	Center	Ceiling	Concrete	Intact	Negative	0.03
21	10/4/2017	room 204	Center	Ceiling	Concrete	Intact	Negative	0.02
22	10/4/2017	room 204	Center	Ceiling	Concrete	Intact	Negative	0.02
23	10/4/2017	room 204	Center	Pipe	Metal	Intact	Negative	0
24	10/4/2017	room 204	C	Electrical box	Metal	Intact	Negative	0
25	10/4/2017	2nd floor storage	A	Wall	Brick	Intact	Negative	0.01
26	10/4/2017	2nd floor storage	A	Wall	Concrete	Intact	Negative	0.4
27	10/4/2017	2nd floor storage	B	Window Molding	Metal	Poor	Negative	0.01
28	10/4/2017	2nd floor storage	B	Window Molding	Metal	Poor	Negative	-0.1
29	10/4/2017	2nd floor storage	C	Door	Metal	Intact	Negative	0
30	10/4/2017	2nd floor storage	C	Door Molding	Metal	Intact	Negative	0
31	10/4/2017	2nd floor storage	C	Wall	Brick	Intact	Negative	0
32	10/4/2017	2nd floor storage	B	Wall	Brick	Intact	Negative	0
33	10/4/2017	2nd floor storage	C	Wall corner guards	Metal	Intact	Positive	2.3

34	10/4/2017	2nd floor storage	C	Elevator door	Metal	Intact	Negative	0.9		
35	10/4/2017	2nd floor storage	C	Elevator door	Metal	Intact	Positive	1.5		
36	10/4/2017	2nd floor storage	C	Elevator door molding	Metal	Intact	Negative	0.14		
37	10/4/2017	2nd floor storage	C	Elevator wall interior	Metal	Intact	Negative	0.02		
38	10/4/2017	2nd floor storage	C	Elevator wall interior	Metal	Intact	Negative	0.01		
39	10/4/2017	2nd floor storage	C	Window Molding	Metal	Poor	Negative	0.01		
40	10/4/2017	2nd floor storage	C	Wall	Drywall	Intact	Negative	0		
41	10/4/2017	2nd floor storage	D	Wall	Drywall	Intact	Negative	0		
42	10/4/2017	2nd floor storage	D	Door	Wood	Intact	Negative	0.02		
43	10/4/2017	2nd floor storage	D	Door Molding	Metal	Intact	Negative	0.04		
44	10/4/2017	2nd floor storage	D	Column	Concrete	Intact	Negative	0.04		
45	10/4/2017	2nd floor storage	D	Column metal corner guard	Metal	Intact	Negative	0.5		
46	10/4/2017	2nd floor storage	D	Column metal corner guard	Metal	Intact	Negative	0.5		
47	10/4/2017	2nd floor storage	D	Pipe	Metal	Intact	Negative	0		
48	10/4/2017	2nd floor storage	Center	Ceiling	Concrete	Intact	Negative	0		
49	10/4/2017	2nd floor storage	Center	Ceiling	Concrete	Intact	Negative	0.01		
50	10/4/2017	2nd floor storage	Center	Pipe	Metal	Intact	Negative	0		
51	10/4/2017	2nd floor storage	Center	Pipe	Metal	Intact	Negative	0		
52	10/4/2017	room 200c in storage	A	Door	Wood	Intact	Negative	0		
53	10/4/2017	room 200c in storage	A	Door Molding	Metal	Intact	Negative	0		
54	10/4/2017	room 200c in storage	A	Wall	Drywall	Intact	Negative	0		
55	10/4/2017	room 200c in storage	B	Wall	Drywall	Intact	Negative	0		
56	10/4/2017	room 200c in storage	C	Wall	Drywall	Intact	Negative	0		
57	10/4/2017	room 200c in storage	D	Wall	Drywall	Intact	Negative	0		
58	10/4/2017	room 200c in storage	A	Window Sill	Wood	Intact	Negative	0		
59	10/4/2017	room 200c in storage	A	Window Molding	Wood	Intact	Negative	0		
60	10/4/2017	room 205	A	Door	Wood	Intact	Negative	0.02		
61	10/4/2017	room 205	A	Door Molding	Metal	Intact	Negative	0.03		
62	10/4/2017	room 205	A	Wall	Drywall	Intact	Negative	0.04		
63	10/4/2017	room 205	B	Wall	Drywall	Intact	Negative	0.01		
64	10/4/2017	room 205	B	Window Sill	Wood	Intact	Negative	0.01		
65	10/4/2017	room 205	B	Window Molding	Wood	Intact	Negative	0.07		
66	10/4/2017	room 205	B	Door	Wood	Intact	Negative	0.02		
67	10/4/2017	room 205	B	Door Molding	Metal	Intact	Negative	0.05		

Reading No	Date	Room	Wall	Component	Substrate	Paint Condition	Results	PbC
68	10/4/2017	room 205	C	Wall	Drywall	Intact	Negative	0.01
69	10/4/2017	room 205	C	Door	Wood	Intact	Negative	0.11
70	10/4/2017	room 205	C	Door Molding	Metal	Intact	Negative	0.03
71	10/4/2017	room 205	D	Door Molding	Metal	Intact	Negative	0.1
72	10/4/2017	room 205	D	Door	Wood	Intact	Negative	0
73	10/4/2017	room 206	A	Door	Wood	Intact	Negative	0.02
74	10/4/2017	room 206	A	Door Molding	Metal	Intact	Negative	0.04
75	10/4/2017	room 206	A	Wall	Drywall	Intact	Negative	0.02
76	10/4/2017	room 206	C	Wall	Drywall	Intact	Negative	0.01
77	10/4/2017	room 206	B	Wall	Drywall	Intact	Negative	0
78	10/4/2017	room 206	D	Wall	Drywall	Intact	Negative	0
79	10/4/2017	room 207	A	Door	Wood	Intact	Negative	0
80	10/4/2017	room 207	A	Door Molding	Metal	Intact	Negative	0
81	10/4/2017	room 207	A	Wall	Drywall	Intact	Negative	0
82	10/4/2017	room 207	B	Wall	Drywall	Intact	Negative	0
83	10/4/2017	room 207	C	Wall	Drywall	Intact	Negative	0
84	10/4/2017	room 207	A	Wall	Drywall	Intact	Negative	0
85	10/4/2017	room 207	B	Wall	Drywall	Intact	Negative	0
86	10/4/2017	room 207	C	Wall	Drywall	Intact	Negative	0
87	10/4/2017	room 207	D	Wall	Drywall	Intact	Negative	0
88	10/4/2017	room 208	A	Door	Wood	Intact	Negative	0.01
89	10/4/2017	room 208	A	Door Molding	Metal	Intact	Negative	0.06
90	10/4/2017	room 208	A	Wall	Drywall	Intact	Negative	0
91	10/4/2017	room 208	A	Chair rail wallguard	Wood	Intact	Negative	0
92	10/4/2017	room 208	A	Wall	Drywall	Intact	Negative	0.01
93	10/4/2017	room 208	B	Wall	Drywall	Intact	Negative	0.05
94	10/4/2017	room 208	C	Wall	Drywall	Intact	Negative	0
95	10/4/2017	room 208	C	Window Molding	Metal	Fair	Negative	0
96	10/4/2017	room 208	D	Wall	Drywall	Intact	Negative	0.01
97	10/4/2017	room 208	D	Chair rail wallguard	Wood	Intact	Negative	0
98	10/4/2017	bridge	Center	Beam	Metal	Poor	Negative	0.5
99	10/4/2017	bridge	Center	Beam	Metal	Poor	Negative	0.08
100	10/4/2017	bridge	Center	Beam	Metal	Poor	Negative	0.5

Reading No	Date	Room	Wall	Component	Substrate	Paint Condition	Results	PbC
101	10/4/2017	bridge	Center	Beam	Metal	Poor	Negative	0.7
102	10/4/2017	bridge	Center	Beam	Metal	Poor	Negative	0.8
103	10/4/2017	bridge	Center	Beam	Metal	Poor	Negative	0.5
104	10/4/2017	bridge	Center	Beam	Metal	Poor	Negative	0.5
105	10/4/2017	bridge	Center	Beam	Metal	Poor	Negative	0.4
106	10/4/2017	bridge	Center	Beam	Metal	Poor	Negative	0.4
107	10/4/2017	bridge	Center	Beam	Metal	Poor	Negative	0.27
108	10/4/2017	bridge	Center	Beam	Metal	Poor	Negative	0.7
109	10/4/2017	bridge	Center	Beam	Metal	Poor	Negative	0.5
110	10/4/2017	room 216	A	Door	Wood	Intact	Negative	0
111	10/4/2017	room 216	A	Door Molding	Metal	Intact	Negative	0
112	10/4/2017	room 216	A	Door Molding	Metal	Intact	Negative	0
113	10/4/2017	room 216	A	Door Molding	Metal	Intact	Negative	0
114	10/4/2017	room 216	B	Wall	Brick	Intact	Negative	0
115	10/4/2017	room 216	B	Wall	Brick	Intact	Negative	0.01
116	10/4/2017	room 216	B	Window Sill	Concrete	Intact	Negative	0
117	10/4/2017	room 216	B	Window Molding	Metal	Intact	Negative	0.23
118	10/4/2017	room 216	B	Window Molding	Metal	Intact	Negative	0.18
119	10/4/2017	room 216	C	Wall	Drywall	Intact	Negative	0
120	10/4/2017	room 216	C	Door	Wood	Intact	Negative	0
121	10/4/2017	room 216	C	Door Molding	Metal	Intact	Negative	0
122	10/4/2017	room 216	C	Wall	Drywall	Intact	Negative	0
123	10/4/2017	room 216	D	Wall	Drywall	Intact	Negative	0
124	10/4/2017	room 217	A	Door	Wood	Intact	Negative	0
125	10/4/2017	room 217	A	Door Molding	Metal	Intact	Negative	0
126	10/4/2017	room 217	A	Wall	Drywall	Intact	Negative	0
127	10/4/2017	room 217	B	Wall	Drywall	Intact	Negative	0
128	10/4/2017	room 217	C	Wall	Drywall	Intact	Negative	0
129	10/4/2017	room 217	D	Wall	Drywall	Intact	Negative	0
130	10/4/2017	room 211	A	Door	Wood	Intact	Negative	0
131	10/4/2017	room 211	A	Door Molding	Metal	Intact	Negative	0
132	10/4/2017	room 211	A	Wall	Drywall	Intact	Negative	0
133	10/4/2017	room 211	B	Wall	Drywall	Intact	Negative	0

Reading No	Date	Room	Wall	Component	Substrate	Paint Condition	Results	PbC
134	10/4/2017	room 211	C	Wall	Drywall	Intact	Negative	0
135	10/4/2017	room 211	D	Wall	Drywall	Intact	Negative	0
136	10/4/2017	2nd floor hallway	A	Door	Metal	Fair	Negative	0.15
137	10/4/2017	2nd floor hallway	A	Door Molding	Metal	Fair	Negative	0.04
138	10/4/2017	2nd floor hallway	A	Wall	Brick	Intact	Negative	0
139	10/4/2017	2nd floor hallway	A	Window Sill	Brick	Intact	Negative	0.01
140	10/4/2017	2nd floor hallway	A	Window Molding	Metal	Intact	Negative	0.02
141	10/4/2017	2nd floor hallway	A	Electrical conduit	Metal	Intact	Negative	0.01
142	10/4/2017	2nd floor hallway	A	Wall	Brick	Intact	Negative	0
143	10/4/2017	2nd floor hallway	A	Door	Wood	Intact	Negative	0.13
144	10/4/2017	2nd floor hallway	A	Door Molding	Metal	Intact	Negative	0.08
145	10/4/2017	2nd floor hallway	C	Wall	Drywall	Intact	Negative	0
146	10/4/2017	2nd floor hallway	C	Door Molding	Metal	Intact	Negative	0
147	10/4/2017	2nd floor hallway	D	Wall	Drywall	Intact	Negative	0.07
148	10/4/2017	2nd floor restroom	A	Door	Wood	Intact	Negative	0.08
149	10/4/2017	2nd floor restroom	A	Wall	Brick	Intact	Negative	0
150	10/4/2017	2nd floor restroom	A	Door Molding	Metal	Intact	Negative	0.06
151	10/4/2017	2nd floor restroom	B	Wall	Brick	Intact	Negative	0
152	10/4/2017	2nd floor restroom	C	Wall	Brick	Intact	Negative	0
153	10/4/2017	2nd floor restroom	C	Window Molding	Metal	Fair	Negative	0
154	10/4/2017	2nd floor restroom	C	Window Molding	Metal	Fair	Negative	0
155	10/4/2017	2nd floor restroom	C	Partition	Metal	Fair	Negative	0.2
156	10/4/2017	2nd floor restroom	D	Wall	Brick	Intact	Negative	0
157	10/4/2017	2nd floor staircase	A	Wall	Brick	Intact	Negative	0
158	10/4/2017	2nd floor staircase	A	Wall	Brick	Intact	Negative	0.02
159	10/4/2017	2nd floor staircase	B	Wall	Brick	Intact	Negative	0
160	10/4/2017	2nd floor staircase	C	Wall	Brick	Intact	Negative	0
161	10/4/2017	2nd floor staircase	D	Wall	Brick	Intact	Negative	0
162	10/4/2017	2nd floor staircase	D	Wall	Concrete	Intact	Negative	0.01
163	10/4/2017	2nd floor staircase	B	Window Sill	Metal	Fair	Negative	-0.15
164	10/4/2017	2nd floor staircase	D	Window Sill	Metal	Fair	Negative	0.05
165	10/4/2017	2nd floor staircase	Center	Stairs	Metal	Intact	Negative	0.03
166	10/4/2017	2nd floor staircase	Center	Stairs	Metal	Intact	Negative	0.02

Reading No	Date	Room	Wall	Component	Substrate	Paint Condition	Results	PbC
167	10/4/2017	2nd floor staircase	Center	Stairs	Metal	Intact	Negative	0.6
168	10/4/2017	2nd floor staircase	Center	Wall string	Metal	Intact	Positive	1.9
169	10/4/2017	2nd floor staircase	Center	Stairs	Metal	Intact	Negative	0.6
170	10/4/2017	2nd floor staircase	Center	Stairs	Metal	Intact	Negative	0.24
171	10/4/2017	2nd floor staircase	Center	Floor	Concrete	Intact	Negative	0
172	10/4/2017	2nd floor staircase	Center	Stairs	Metal	Fair	Negative	0.09
173	10/4/2017	2nd floor staircase	Center	Stairs	Metal	Fair	Negative	0.04
174	10/4/2017	bulkhead	A	Door	Metal	Fair	Negative	0.29
175	10/4/2017	bulkhead	A	Door	Metal	Fair	Negative	0.3
176	10/4/2017	bulkhead	A	Door Molding	Metal	Fair	Negative	0.03
177	10/4/2017	bulkhead	A	Door Molding	Metal	Fair	Negative	0.07
178	10/4/2017	1st floor hallway by stairs	A	Door Molding	Metal	Fair	Positive	2
179	10/4/2017	1st floor hallway by stairs	A	Door	Metal	Fair	Negative	0
180	10/4/2017	1st floor hallway by stairs	A	Wall	Brick	Intact	Negative	0
181	10/4/2017	1st floor hallway by stairs	B	Wall	Brick	Intact	Negative	0
182	10/4/2017	1st floor hallway by stairs	C	Wall	Brick	Intact	Negative	0
183	10/4/2017	1st floor hallway by stairs	C	Door	Metal	Intact	Negative	0.3
184	10/4/2017	1st floor hallway by stairs	C	Door Molding	Metal	Intact	Negative	0.4
185	10/4/2017	1st floor hallway by stairs	D	Door Molding	Metal	Intact	Negative	0
186	10/4/2017	1st floor hallway by stairs	D	Door	Wood	Intact	Negative	0
187	10/4/2017	1st floor hallway by stairs	D	Wall	Drywall	Intact	Negative	0
188	10/4/2017	1st floor room 104a-1	A	Door	Wood	Intact	Negative	0
189	10/4/2017	1st floor room 104a-1	A	Door Molding	Metal	Intact	Negative	0.05
190	10/4/2017	1st floor room 104a-1	A	Wall	Drywall	Intact	Negative	0
191	10/4/2017	1st floor room 104a-1	B	Wall	Drywall	Intact	Negative	0
192	10/4/2017	1st floor room 104a-1	C	Door Molding	Metal	Intact	Negative	0.01
193	10/4/2017	1st floor room 104a-1	C	Door Molding	Metal	Intact	Negative	0.02
194	10/4/2017	1st floor room 104a-1	D	Door Molding	Metal	Intact	Negative	0.08
195	10/4/2017	1st floor room 104a-1	D	Door	Wood	Intact	Negative	0
196	10/4/2017	1st floor room 104a-1	D	Wall	Drywall	Intact	Negative	0
197	10/4/2017	1st floor room 104a-1 restroom	A	Door Molding	Metal	Intact	Negative	0
198	10/4/2017	1st floor room 104a-1 restroom	A	Wall	Drywall	Intact	Negative	0
199	10/4/2017	1st floor room 104a-1 restroom	B	Wall	Plaster	Intact	Negative	0.07

Reading No	Date	Room	Wall	Component	Substrate	Paint Condition	Results	PbC
200	10/4/2017	1st floor room 104a-1 restroom	B	Wall	Brick	Intact	Negative	0.11
201	10/4/2017	1st floor room 104a-1 restroom	B	Door Molding	Metal	Intact	Negative	0.11
202	10/4/2017	1st floor room 104a-1 restroom	C	Wall	Brick	Intact	Negative	0.03
203	10/4/2017	1st floor room 104a-1 restroom	D	Wall	Brick	Intact	Negative	0
204	10/4/2017	1st floor room 104a-1 restroom	D	Door	Wood	Intact	Negative	0
205	10/4/2017	1st floor room 104a-1 restroom	D	Door Molding	Metal	Intact	Negative	0
206	10/4/2017	1st floor room 104	A	Door Molding	Metal	Intact	Negative	0
207	10/4/2017	1st floor room 104	A	Wall	Drywall	Intact	Negative	0.03
208	10/4/2017	1st floor room 104	B	Wall	Drywall	Intact	Negative	0
209	10/4/2017	1st floor room 104	C	Wall	Brick	Intact	Negative	0.03
210	10/4/2017	1st floor room 104	D	Wall	Brick	Intact	Negative	0.06
211	10/4/2017	1st floor room 104	D	Wall	Brick	Intact	Negative	0.05
212	10/4/2017	1st floor room 104	D	Wall	Drywall	Intact	Negative	0
213	10/4/2017	1st floor room 104	Center	Ceiling	Concrete	Intact	Negative	0.01
214	10/4/2017	1st floor room 104	Center	Floor	Concrete	Intact	Negative	0.01
215	10/4/2017	1st floor room 104	A	Pipe	Metal	Intact	Negative	0
216	10/4/2017	1st floor room 104c	A	Door	Metal	Intact	Negative	0.29
217	10/4/2017	1st floor room 104c	A	Door Molding	Metal	Intact	Negative	0.5
218	10/4/2017	1st floor room 104c	A	Wall	Drywall	Intact	Negative	0
219	10/4/2017	1st floor room 104c	B	Wall	Brick	Intact	Negative	0.02
220	10/4/2017	1st floor room 104c	B	Wall	Brick	Intact	Negative	0.02
221	10/4/2017	1st floor room 104c	B	Wall	Brick	Intact	Negative	0.06
222	10/4/2017	1st floor room 104c	C	Wall	Brick	Intact	Negative	0.02
223	10/4/2017	1st floor room 104c	C	Wall	Brick	Fair	Negative	0.06
224	10/4/2017	1st floor room 104c	C	Wall	Brick	Fair	Negative	0.04
225	10/4/2017	1st floor room 104c	C	Window Molding	Metal	Fair	Negative	0.02
226	10/4/2017	1st floor room 107	A	Door Molding	Metal	Fair	Negative	0
227	10/4/2017	1st floor room 107	A	Door Molding	Metal	Fair	Positive	7.2
228	10/4/2017	1st floor room 107	A	Column	Metal	Fair	Positive	1.7
229	10/4/2017	1st floor room 107	A	Wall	Brick	Fair	Negative	0.02
230	10/4/2017	1st floor room 107	A	Wall	Brick	Fair	Negative	0.05
231	10/4/2017	1st floor room 107	A	Pipe	Metal	Fair	Positive	4.9
232	10/4/2017	1st floor room 107	B	Pipe	Metal	Fair	Negative	0.03

Reading No	Date	Room	Wall	Component	Substrate	Paint Condition	Results	PbC
233	10/4/2017	1st floor room 107	B	Wall	Brick	Fair	Negative	0.01
234	10/4/2017	1st floor room 107	B	Wall	Metal	Fair	Negative	0.23
235	10/4/2017	1st floor room 107	B	Wall	Metal	Fair	Negative	0.16
236	10/4/2017	1st floor room 107	B	Door	Metal	Fair	Negative	0.13
237	10/4/2017	1st floor room 107	B	Door Molding	Metal	Fair	Negative	0.18
238	10/4/2017	1st floor room 107	B	Window Molding	Metal	Fair	Negative	0.12
239	10/4/2017	1st floor room 107	B	Wall	Drywall	Fair	Negative	0
240	10/4/2017	1st floor room 107	C	Baseboard	Wood	Fair	Negative	0
241	10/4/2017	1st floor room 107	C	Door Molding	Metal	Intact	Negative	0.03
242	10/4/2017	1st floor room 107	D	Door Molding	Metal	Intact	Negative	0.06
243	10/4/2017	1st floor room 107	D	Door	Metal	Intact	Negative	0.22
244	10/4/2017	1st floor room 107	D	Wall	Brick	Intact	Negative	0.01
245	10/4/2017	1st floor room 107	D	Wall	Metal	Intact	Negative	0.12
246	10/4/2017	1st floor room 107	D	Elevator door	Metal	Fair	Negative	0.7
247	10/4/2017	1st floor room 107	D	Elevator door	Metal	Fair	Negative	0.8
248	10/4/2017	1st floor room 107	D	Elevator door molding	Metal	Fair	Negative	0.15
249	10/4/2017	1st floor room 107	D	Elevator door molding	Metal	Fair	Negative	0.3
250	10/4/2017	1st floor exterior staircase	A	Stairs	Metal	Fair	Positive	1.7
251	10/4/2017	1st floor exterior staircase	A	Stairs	Metal	Fair	Positive	1.9
252	10/4/2017	1st floor exterior staircase	A	Door	Metal	Intact	Negative	0
253	10/4/2017	1st floor exterior staircase	A	Door	Metal	Intact	Negative	0
254	10/4/2017	calibration	*	*	*	*	Positive	1.8
255	10/4/2017	calibration	*	*	*	*	Positive	2.6
256	10/4/2017	calibration	*	*	*	*	Positive	2.9
257	10/4/2017	calibration	*	*	*	*	Negative	0.01
258	10/4/2017	calibration	*	*	*	*	Negative	0
259	10/4/2017	calibration	*	*	*	*	Negative	0