COCCIARDI and Associates, Inc.
Safety • Environmental Health • Emergency Preparedness
Consulting and Training

DATE: January 30, 2017

TO: Mr. John Armstead, Director, Land and Chemicals Division
United States Environmental Protection Agency
1650 Arch Street
Philadelphia, PA 19103-2029

FROM: Joseph A. Cocciardi, PhD, MS, CSP, CIH, REHS/RS

SUBJECT: Transmittal of Notification and Certification in compliance with 40 CFR 761.61 (a) (3): Polychlorinated Biphenyl (PCB) Activities

Please find attached the above referenced request and signed certification for the referenced PCB activities to occur at 1313 Meylert Avenue, Scranton, Pennsylvania.

Please feel free to contact me if any additional information is needed.

As required, a full copy of this notification and certification is being sent to the Pennsylvania Department of Environmental Protection (Wilkes-Barre Office) and the City of Scranton (Licensing, Inspections and Permits Department).

Joseph A. Cocciardi, PhD, MS, CSP, CIH, REHS/RS
Founding Principal
Cocciardi and Associates, Inc.

cc: Kelly Bunker: US EPA, Region 3, Philadelphia
Eric Supey: PA Department of Environmental Protection, Wilkes-Barre
Patrick L. Hinton: City of Scranton, Scranton

4 Kacey Court • Mechanicsburg, PA 17055-5596 • (717) 766-4500 • FAX (717) 766-3999
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DATE: January 30, 2017

TO: Mr. John Armstead, Director, Land and Chemicals Division
United States Environmental Protection Agency
1650 Arch Street
Philadelphia, PA 19103-2029

FROM: Mr. Donald Rinaldi
Lace Building Affiliates, LP
2537 Flowing Springs Road
Chester Springs, PA 19425

BY: Joseph A. Cocciardi, PhD, MS, CSP, CIH, REHS/RS
Coccairdi and Associated, Inc.
4 Kacey Court
Mechanicsburg, PA 17055

RE: Notification and Certification in compliance with 40 CFR 761.61(a)(3)
Cocciardi Project No. 150794

EXECUTIVE SUMMARY:

The Scranton Lace Company was established in 1890 and incorporated in 1897, and was once one of the premier producers of a variety of textiles including tablecloths, napkins, parachutes and tarpaulins. The site, which consisted of 36 interconnected buildings is located at 1313 Meylert Avenue, Scranton, Pennsylvania, and covers 7.5 acres. Locator maps are found in the Figures below.

Figure I
Scranton Lace Locator Map
Scranton Lace Complex
Scranton, Pennsylvania

Figure II
Scranton Lace Property Identification Outline
1313 Meylert Avenue
Scranton, Pennsylvania

Lace Building Affiliates, LP: Asbestos Abatement Project Specifications Subject Property: 1313 Meylert Avenue, Scranton, PA	Aerial Photograph (Google Earth 2016)

In 2011, the City of Scranton received a redevelopment grant from the Commonwealth of Pennsylvania and engaged the Lace Building Affiliates, LP, Development Corporation to manage building demolition/renovation and subsequent construction activities at this site. As an initial action, a Phase I Environmental Site Assessment (Phase I) was completed May 6, 2011. [1] This Phase I identified the potential for PCB containing oils and releases on site due to the age of the structures.

Subsequently, Cocciardi and Associates was engaged to further investigate, quantify and determine remedial actions for environmental hazards identified on site (i.e. perform a Phase II environmental assessment). In an abundance of caution, screening samples and subsequent characterization for PCB were performed on site.

This correspondence identifies findings of the Phase II assessment/quantification relative to Polychlorinated Biphenyls (PCBs) as defined by the United States Environmental Protection Agency (EPA) at 40 CFR 761.3. It describes the nature of the contamination (or lack of contamination) and the material contaminated where found. It provides a summary of sampling procedures and maps results (including sample collection and analysis dates). Laboratory sample documentation is Appended to this report. Subsequently PCB levels within the site are mapped.

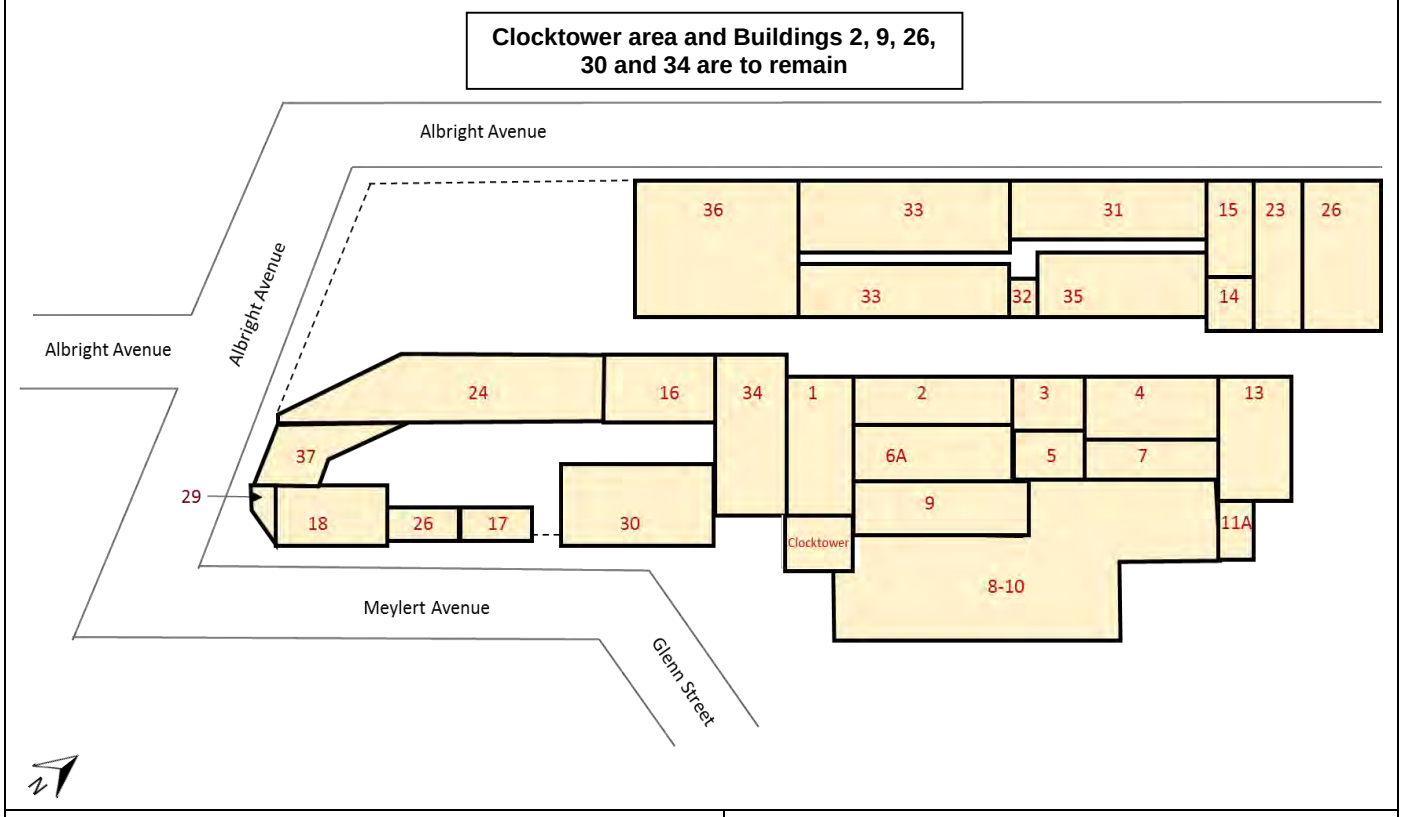
Finally, the clean-up plan for the site is provided and a request proffered to approve disposal of PCBs at the levels found on site, in compliance with requirements of 40 CFR 761.61(a). All clean up levels requested for approval are those found at 40 CFR 761.61(a), and disposal of all PCB containing materials is in accordance with 40 CFR 761.61(a)(5)(ii) and (v)(A) at a facility licensed and permitted to manage municipal solid waste subject to 40 CFR 258 [for materials found at <50ppmPCB], or a facility licensed under 40 CFR 761.61(a)(5)(iii) of the Toxic Substances Control Act (TSCA) for materials found at >50ppm or remediation waste materials. Fifteen-day notification will be provided to each facility prior to waste disposal.

These facilities are identified as:

- Lycoming Landfill, PO Box 187, Montgomery, PA (ID #100963) (less than 50 ppm PCB waste)
- US Ecology Michigan Landfill, 49350 North I-94 Service Drive, Belleville, MI 48111 (EPA ID# MID048090633) (equal to or greater than 50 ppm PCB waste)

[1] Shoener Environmental: “Scranton Lace, Phase I Assessment;” Dickson City, PA, May 6, 2011.

Figure III
Building Locator/Map of Scranton Lace
Scranton Lace Complex
1313 Meylert Avenue
Scranton, Pennsylvania



Lace Building Affiliates, LP: Asbestos Abatement Project Specifications Subject Property: 1313 Meylert Avenue, Scranton, PA	Figure 1: Scranton Lace Complex Site Sketch at Planned Renovation and Demolition Building

NATURE OF CONTAMINATION AND MATERIALS IMPACTED:

Subsequent to review of the Phase I materials, Cocciardi provided a thorough on-site inspection of all interior and exterior areas of the facility (See Figure III). The inspection was designed in part to reveal suspect PCB containing equipment, as well as indications of oil releases from unknown sources. These pieces of information were not discussed/quantified in the original Phase I Environmental Site Assessment. The results of this inspection were

published on May 6, 2016[2] and are summarized in Table I, below. Some PCB screening samples were collected and where PCB were identified, a sampling plan was developed to appropriately characterize areas (e.g. core sampling of concrete per EPA procedure). Prior to on-site activities, a Health and Safety Plan (HASP) was authored by a Certified Industrial Hygienist (CIH) and implemented for all on site work, (including both wipe and core sampling, and any needed emergent or remedial activities.).[3]

This HASP is found in Attachment II and has been updated for both winter and summer work.

Table I
Site PCB Inspection Finding:
Scranton Lace Complex
Scranton, Pennsylvania

Location, Description, Approximate Quantity	Finding	Use	Waste Material	Comments
Building 30: Floor/Rooftop access.	Standing oil without source on stairwell, concrete pad 120 SF	Low Occupancy	Porous Surface (Concrete)	An initial oil sample identified at 1.6 ppm in oil. This area is included in the request as no oil source was identified. Concrete pad core samples were collected in the same location, per EPA protocol. Core/concrete sampling was ND for PCBs. This area will be RENOVATED.
Clock Tower: Inside clock tower: clock shaft machinery within the clock room.	Oil and grease was identified on the clock machinery. Oil staining was not identified on concrete.	Low Occupancy	Non-Porous Surface (Metal Clock Equipment)	An initial wipe sample identified 22.4 µg/100cm^2 on clock (metal) equipment. Core/concrete sampling ranged from ND to 2.6 ppm of PCBs. This area will be RENOVATED.

Notes to Table I:
ND = Not detected

[2] Cocciardi, JA, PhD, CIH to Donald Rinaldi: Pre-Renovation/Pre-Orientation Suspect PCB Sampling: Scranton Lace Building Complex: May 6, 2016.
[3] Cocciardi, JA, PhD, CIH: Health and Safety Plan: Environmental Characterization and Remediation Activities: Scranton Lace; version 1.0: Jessup, PA June 27, 2016.

Table I (Continued) Site PCB Inspection Finding: Scranton Lace Complex Scranton, Pennsylvania				
Location, Description, Approximate Quantity	**Finding**	**Use**	**Waste Material**	**Comments**
Building 2: Concrete base of elevator shaft.	Oil staining found at elevator shaft base without source. 150 SF	Low Occupancy	Porous Surface (Concrete)	An initial wipe sample identified 30 µg/100cm^2. Subsequent core sampling identified ND levels of PCBs. This area will be RENOVATED.
Building 3: Concrete floor, wood floor of machine shop and machine pad.	Oil staining identified without a source. 1, 225 SF of oily area identified.	High Occupancy (Scheduled for DEMOLITION)	Porous Surface	An initial series of screening samples were collected and one wipe sample identified ~ 50 ppm of PCB. Subsequently the area was core sampled with all results below 4 ppm. This building will be DEMOLISHED.
Building 4: Oil staining on wood floor beneath previous machine locations.	Some oil staining identified in the machine area at 3,234 SF	High Occupancy (Scheduled for DEMOLITION)	Porous Surface	An initial wipe sample identified 4.1 µg/100cm^2. Subsequent core sampling identified all results below 4.4 ppm. This area will be DEMOLISHED.
Building 6A: Oil staining on concrete floor around conveyor belt/tracks.	Occasional oil staining was identified in the area of former machinery.	High Occupancy (Scheduled for DEMOLITION)	Porous Surface	An initial wipe sample identified 37 µg/100 cm^2 of PCB. Subsequently core sampling was performed and identified 600 ft^2 of concrete as above 50 ppm with a maximum level of 130 ppm. Areas above 50 ppm were segregated/identified for remediation/TSCA disposal.

Notes to Table I:
ND = Not detected

Table I (Continued) Site PCB Inspection Finding: Scranton Lace Complex Scranton, Pennsylvania				
Location, Description, Approximate Quantity	**Finding**	**Use**	**Waste Material**	**Comments**
Building 8-10 Report of potential concern from Phase I Environmental Audit	All areas inspected, however this is a structurally unsafe floor location.	High Occupancy (Scheduled for DEMOLITION)	Porous Surface	This area was inspected due to potential concerns identified in the Phase I Environmental Site Assessment. No sources were identified, some staining was observed (weathered appearance and possibly water damage and subsequently core sampling with composite analysis was performed. All composite results were identified as significantly below 50 ppm with the analysis and calculation procedures identified in verification of PCB spill clean-up by sampling and analysis; U.S. EPA; EPA 560/5-85-025, August 1985. Subsequently, no release was characterized (or if a release occurred it was appropriately remediated). This are will be DEMOLISHED.
Building 13: Powerhouse Oil staining on 2nd Floor old transformer area.	All areas of this structure were inspected.	Low Occupancy (Scheduled for DEMOLITION)	Porous Surface (Brick & Cement)	Two layers of materials were sampled. 1100 ft^2 of brick flooring and cement pad are identified >50ppm and will be removed for TSCA disposal. 700 ft^2 of material below these areas (below brick or top .5 inch) were above >50ppm and will be scarified/extracted. All remediation waste will be disposed at the identified TSCA landfill. All activities will occur per the attached HASP.

Notes to Table I:
ND = Not detected

As indicated in Table I, once areas of potential concern were identified, core sampling of porous materials was performed at 3 meter intervals, in compliance with US Environmental Protection Agency (EPA) Guidelines[4]. All sampling in the field was performed at grid intervals per 40 CFR 761.265, providing new 3-meter data for characterizing contamination at a PCB waste remediation site.

Table II identifies the requested actions for the PCB materials found on-site. This request is made in compliance with the requirements of 40 CFR 761.61(a), and appropriate certification follows. Sample results, with sample collections and analysis dates and appropriate mapping and cross referencing is found in Appendix B of this request. The actual laboratory reports are found at Attachment IV of this request.

Table II **Scranton Lace Complex** **Scranton, Pennsylvania** **Notification and Request for U.S. EPA Approval of Clean Up and Disposal of PCB Materials in Compliance with 40 CFR 761.61(a)**	
Location, Description, Approximate Quantity	**Notification and Requested Approval**
Building 30: Floor/Rooftop access. (RENOVATION)	This is a small concrete pad. No PCB were detected in core sampling and no PCB remediation is required.
Clock Tower: Inside clock tower: Clock shaft machinery within the clock room. This clock is currently not in working order. (RENOVATION)	The maximum PCB concentration in the concrete base of the clock tower was 2.6 ppm. The concrete meets the low occupancy clean-up level of less than or equal to 25 ppm. A notation will be added to the deed restricting use and identifying the PCB contamination location. Request continued use of the non-porous surface components of the clock per 761.61(a)(4)(ii): non-porous surfaces of metal clock components with sampling to confirm low occupancy criteria (100 ug/100 cm^2) is applicable. Sampling of the non-porous surfaces will comply with 40 CFR 761, Subpart P, and the standard wipe sampling procedures set forth at Section 761.123. This is defined as a low occupancy area and the low occupancy standard (100 ug/100 cm^2) will be confirmed. A notation will be added to the deed noting the location and concentration of the PCB contamination and restricting use of the area. As this is a small, irregular area, all accessible areas will be sampled. If sample results exceed the low occupancy standard of 100 ug/100 cm^2, remedial efforts will continue until this level is confirmed.

[4] US EPA – New England: Region I: Draft Standard Operating Procedure for Sampling Concrete in the Field: Office of Environmental Measurement and Evaluation, December 1, 1997.

Table II (Continued) Scranton Lace Complex Scranton, Pennsylvania Notification and Request for U.S. EPA Approval of Clean Up and Disposal of PCB Materials in Compliance with 40 CFR 761.61(a)	
Location, Description, Approximate Quantity	**Notification and Requested Approval**
Building 2: Concrete base of elevator shaft. (RENOVATION)	An initial wipe sample identified 30 ug/100 cm^2. No detected PCBs in core sampling. This is subsequently identified as superficial and will be remediated with a double-wash/rinse and then re-sampling both wipe and cores for this area. This is in compliance with 40 CFR 761.30(p). If PCBs at any concentration are detected, remediation will occur to the High Occupancy level of 1 ppm.
Building 3: Concrete floor, wood floor of machine shop and machine pad. (DEMOLITION)	This building will be demolished; request for disposal of all materials at the concentrations found (<4 ppm PCB) at Lycoming Landfill, PO Box 187, Montgomery, PA (ID #100963), as per 761.61(a)(5)(ii) and (v)(A).[5] A 15-day notification will be provided to the facility.
Building 4: Oil staining on wood floor beneath previous machine locations. (DEMOLITION)	This building will be demolished; request for disposal at the concentrations found (<4.4 ppm PCB) at Lycoming Landfill, PO Box 187, Montgomery, PA (ID #100963) as per 761.61(a)(5)(ii) and (v)(A). A 15-day notification will be provided to the facility.
Building 6A: Dark stains on concrete floor around conveyor belt/tracks. (DEMOLITION)	This building will be demolished; no source was identified upon inspection and no standing oil or liquid materials were identified. Subsequently, focused sampling was performed and core sampling has identified 600 ft^2 of concrete with levels as high as 3600 ppm and these areas will be disposed of at the identified TSCA landfill: US Ecology Michigan Landfill, 49350 North I-94 Service Drive, Belleville, MI 48111(EPA ID# MID048090633) as per 761.61(a)(5)(iii). Remaining materials will be disposed at the concentration found at Lycoming Landfill, PO Box 187, Montgomery, PA (ID #100963). Post remediation sampling will be conducted in compliance with 40 CFR 761 Subpart O to ensure that all 50 ppm or greater PCB waste has been identified. 15 day notifications will be provided to the waste receiving facilities, as per 761.61(a)(5)(ii) and (v)(A).

[5] A copy of the Lycoming Landfill permit is found at Attachment V.

Table II (Continued) **Scranton Lace Complex** **Scranton, Pennsylvania** **Notification and Request for U.S. EPA Approval of Clean Up and Disposal of PCB Materials in Compliance with 40 CFR 761.61(a)**	
Location, Description, Approximate Quantity	**Notification and Requested Approval**
Building 8-10 (DEMOLITION)	This building(s) will be demolished. No sources were identified upon inspection; some old stains were observed (possibly water staining or debris). There was no standing oil identified and all stains were weathered in appearance. Only these areas were sampled (focused sampling) due to the non-liquid, non-oily, weathered appearance. The area was sampled to ensure clearance levels were present. When the composite results were multiplied by the number of samples comprising the composite, the highest result was 18 ppm. Core sampling and composite analysis was performed, with composite results significantly below 50 ppm. This is a request for disposal at the concentrations found at Lycoming Landfill, PO Box 187, Montgomery, PA (ID #100963), per 40 CFR 761.61 (c). A 15-day notification will be provided to the facility, as per 40 CFR 761.61(a)(5)(ii) and (v)(A).
Building 13: Powerhouse Oil staining on 2nd Floor Transformer area. (DEMOLITION)	This building will be demolished. Individual core sampling was performed as electrical generation equipment was used in this building (although no transformers or standing oil was identified). This building will be demolished, with waste managed as characterized: Remedial Activities: - 2nd Floor Transformer Pads: Disposal as TSCA waste. - 2nd Floor – Brick tile floor covering: Disposal as TSCA waste (Note: The area includes 1200 ft^2 of brick tile and transformer pads). - 2nd Floor – Concrete below brick tile (700 ft^2) removal by scarification will occur on areas characterized as >50 ppm in compliance with the HASP for this project. - Subsequent sampling will occur to ensure remaining concrete is <50 ppm PCB. All PCB remediation waste will be disposed of at a TSCA site, US Ecology Michigan Landfill, 49350 North I-94 Service Drive, Belleville, MI 48111(EPA ID# MID048090633) as per 761.61(a)(5)(iii). A 15-day notification will be provided to the facility. The building, once sampled to ensure areas are <50ppm (per 40 CFR 761 subpart 0), will be demolished and disposal will occur at concentrations found at Lycoming Landfill, PO Box 187, Montgomery, PA (ID #100963) as per 40 CFR 761.61(a)(5)(ii) and (v)(A). A 15-day notification will be provided to the facility.

SITE CLEAN-UP PLAN:

All remedial activities are found in Table II and will be completed in compliance with the referenced Health and Safety Plan, version 2.0 (appended).

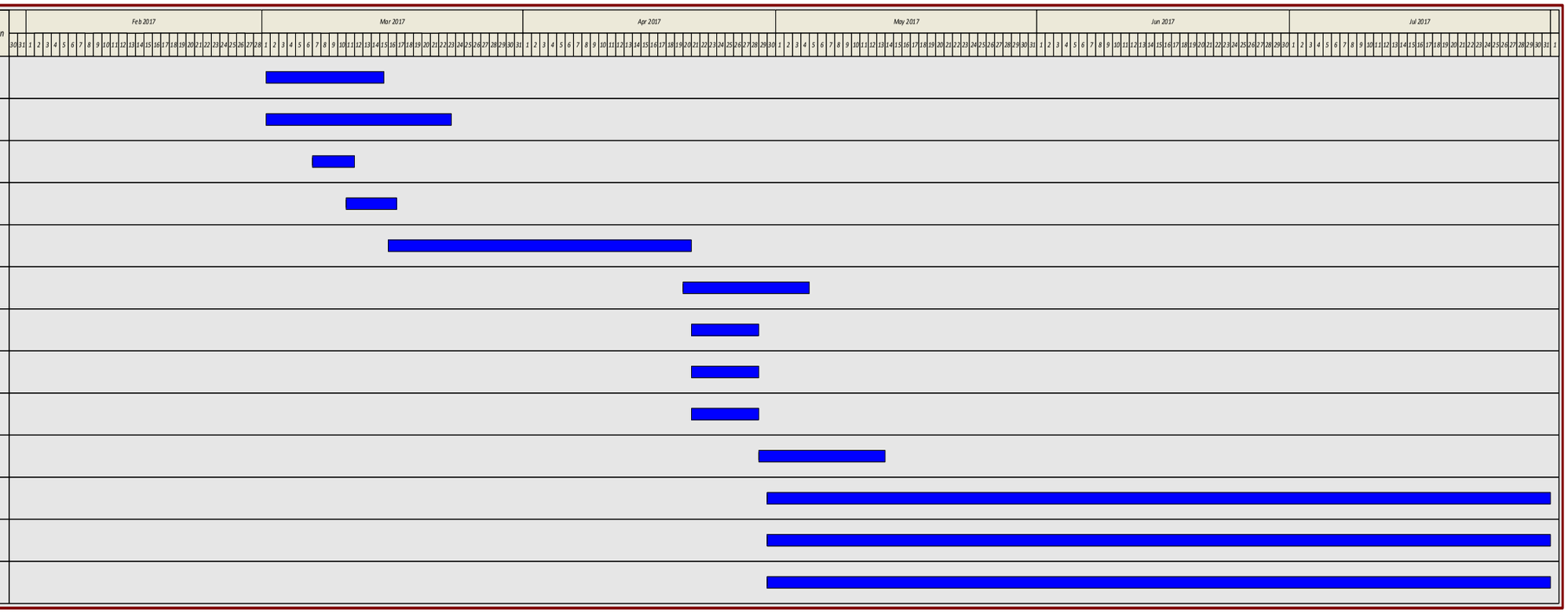
A Health and Safety Officer specifically trained in 40 CFR 761 requirements and the appended HASP will be assigned to this project and continually check oil or potential PCB concerns.

In the event additional oil staining is identified during the demolition phase of this project, work will cease and sampling will be performed to identify PCB contamination. Disposal will not occur until sample results are received.

If results are outside of 40 CFR 761.61(a) approval received, work will not continue in that area until subsequent approval is received per 761.61(A)(3)(E)(ii).

The schedule for work activities is identified in Table III on the following page, with an estimated start date of 1 March 2017. The actual start date will be amended to coincide with receipt of USEPA approvals, 30 days from the submission of this request.

ID	Task Name	Start	Finish	Duration
1	Mobilize and initiate work in Building 13	3/1/2017	3/15/2017	14d
2	Complete work in Building 13	3/1/2017	3/23/2017	22d
3	Post cleanup verification sampling and laboratory analysis, Building 13	3/7/2017	3/11/2017	5d
4	Mobilize and initiate work in Building 6A	3/11/2017	3/16/2017	6d
5	Complete work in Building 6A	3/16/2017	4/20/2017	36d
6	Post cleanup verification sampling and laboratory analysis, Building 6A	4/20/2017	5/4/2017	15d
7	Mobilize, initiate and complete work in Building 30	4/21/2017	4/28/2017	8d
8	Mobilize, initiate and complete work in Building 2	4/21/2017	4/28/2017	8d
9	Mobilize, initiate and complete work in Clocktower	4/21/2017	4/28/2017	8d
10	Post cleanup verification sampling-laboratory analysis, Building 2, 30 and Clocktower	4/29/2017	5/13/2017	15d
11	Building 3	4/30/2017	7/31/2017	93d
12	Building 4	4/30/2017	7/31/2017	93d
13	Building 8-10	4/30/2017	7/31/2017	93d



CERTIFICATION:

All sampling plans, sample collection procedures, sample preparation procedures, extraction procedures, and instrumental/chemical analysis procedures used to assess or characterize the PCB contamination at the cleanup site, are on file at the location designated in the certificate, and are available for EPA inspection.

Files are located at the following location:

Cocciardi and Associates, Inc.
1337 Veterans Memorial Drive
Jessup, PA 18434

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Jody Cordaro 1/16/17
(Signature and printed name of owner of property) Date

Joseph A Cocciardi (/s/) Joseph A. Cocciardi 2/2/17
(Signature and printed name of party authoring cleanup plan) Date
Joseph A. Cocciardi, PhD, MS, CSP, CIH, REHS/RS

Thomas Jimmie Jr 1/13/17
(Signature and printed name of party conducting cleanup) Date

List of Attachments:	Attachment I:	Sampling Plan
	Attachment II:	Health and Safety Plan
	Attachment III:	Sampling Mapping and Results
	Attachment IV:	Laboratory Sampling Reports
	Attachment IVA:	Laboratory Quality Control Documentation
	Attachment IVB:	Laboratory Sampling Reports: Quality Control Replicate Sample Reports
	Attachment V:	Landfill Permits

cc: PADEP Regional Office: Wilkes-Barre, PA
City of Scranton: Department of Community & Economic Development

COCCIARDI and Associates, Inc.

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Attachment I

Sampling Plan

Provided To:

United States Environmental Protection Agency

Notification and Certification in compliance with 40 CFR 761.61(a)(3)

Cocciardi Project No. 150794

Sampling and Analysis Plan: Scranton Lace Complex

Part 1: Introduction

Introduction: From 1890 through 2002, the former Scranton Lace Company operated a lace manufacturing production at the industrial complex located at 1315 Meylert Avenue in Scranton, Pennsylvania. Since ceasing operations in 2002, previous environmental assessments conducted at the complex have identified potential Polychlorinated Biphenyl (PCB) contamination in areas formerly housing transformers, production equipment and other oil-filled units. To facilitate a pre-renovation/demolition grant project, Cocciardi and Associates, Inc. (Cocciardi) has been contracted by the Scranton Lace Redevelopment Company to conduct a PCB site characterization for the targeted areas of the complex for compliance with U.S. Environmental Protection Agency (EPA) requirements under the Toxic Substance Control Act (TSCA, 1976) and corresponding regulatory text.

This Sampling and Analysis Plan (SAP) has been developed to outline the sampling project design; all onsite sampling activities, including sampling methods, data collection, and documentation; laboratory analysis; quality assurance/control measures; and, comparison to EPA cleanup standards. The procedures outlined in this SAP have been developed in general accordance with referenced standards and best industry practices as applicable. All field work shall be performed in accordance with the project Health and Safety Plan (HASP), also developed by Cocciardi. The following regulatory and industry standard guidelines were utilized in the development of this SAP:

- EPA Region 1: Standard Operating Procedure for Sampling Porous Surfaces for Polychlorinated Biphenyls; May 2011
- EPA: Test Methods for Evaluating Solid Waste, Physical/Chemical Methods- PCBs by Gas Chromatography, EPA SW-846 3550B/8082A/608
- 40 CFR 761: Polychlorenated Biphenyls (specifically 761.30; 761.61; 761.79)

Site Description: The subject property is referred to as the Scranton Lace Complex and is currently owned and maintained by Lace Building Affiliates, LP. The property consists of approximately 34 buildings over an 8.31-acre property and is depicted in the site vicinity map below. The building has been vacant since manufacturing operations ceased in 2002.

Objectives and Targeted Parameters: The targeted parameters of concern for this SAP are PCBs. The objective of this SAP and all corresponding activities is to characterize targeted locations for PCB contamination and assess compliance with 40 CFR 761 Subpart G. This shall be conducted through the use of the following methods:

- Implementation of established sample design, site sampling and data collection protocols.
- Use of quality assurance and quality control measures in accordance with standard industry practice.
- Comparison of analytical results with EPA-established site criteria.

This SAP does not address health and safety for sample collection personnel (refer to site HASP) and EPA correspondence for PCB notification, correspondence, etc.

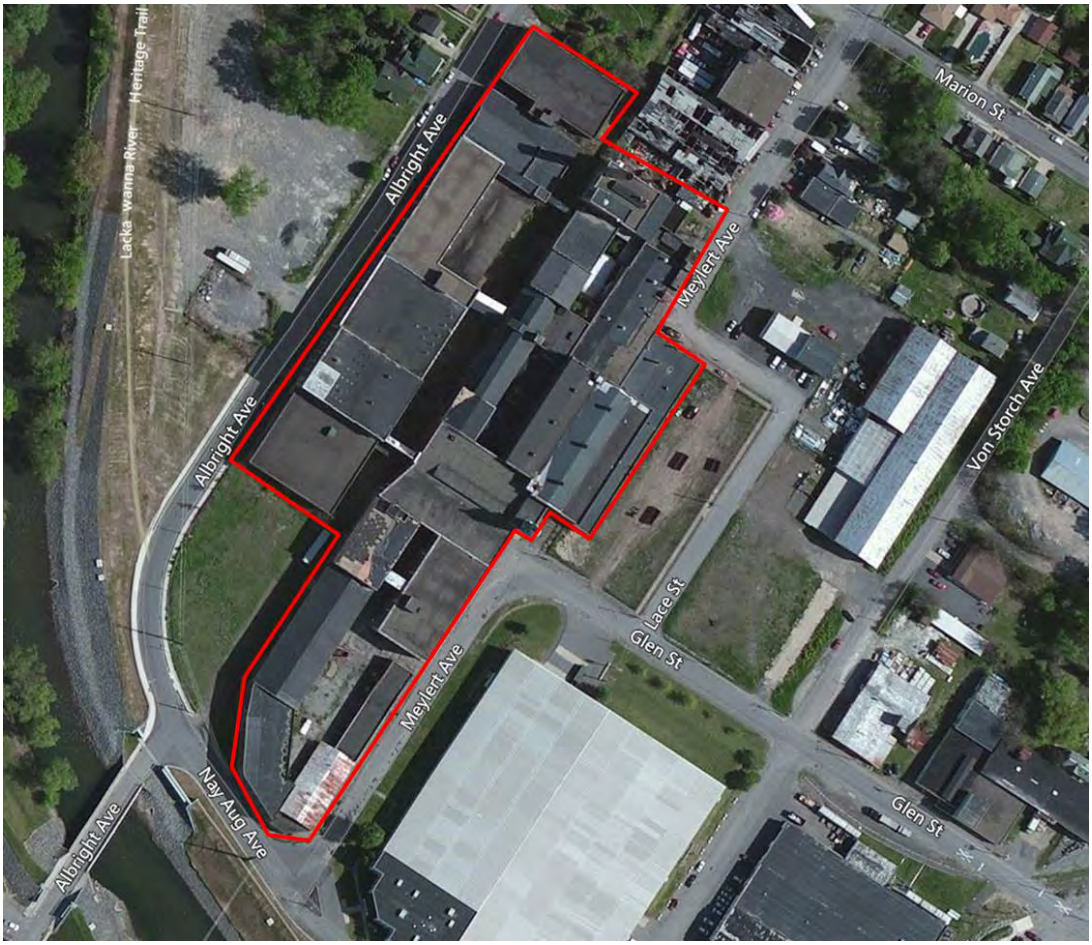


Figure 1: Site Vicinity Map

Part 2: Design

Targeted Buildings and Locations: Targeted buildings and locations are identified through a review of previous PCB documentation, including limited PCB screening conducted by Cocciardi under the scope of the initial hazardous materials inspection project. These areas are summarized in Table I.

For large targeted areas (Buildings 3, 4, 6A, 13 and 8-10), a 10-foot x 10-foot (3-meter x 3-meter) grid shall be laid out, with samples collected at each grid point. For remaining areas (Buildings 2, 30 and the Clocktower), a minimum of three (3) samples shall be collected from each location.

Table I PCB Targeted Locations Scranton Lace Complex Scranton, Pennsylvania			
Building	**Location**	**Surface**	**Comment**
Building 30	4th Floor rooftop access	Porous Surface (Concrete)	Approx. 120 SF
Clocktower	Penthouse gear room	Non-Porous Surfaces	Floor and machinery
Building 2	Base of elevator shaft	Porous Surface (Concrete)	Approx. 150 SF
Building 3	Machine area of former production floor	Porous Surface (Concrete and Wood)	Approx. 1,225 SF
Building 4	Machine area of former production floor	Porous Surface (Concrete and Wood)	Approx. 3,234 SF
Building 6A	Former conveyor area, production floor	Porous Surface (Concrete)	Approx. 2,100 SF
Building 13	2nd Floor former transformer area	Porous Surface (Concrete)	Approx. 1,575 SF
Building 8-10	Former machine/maintenance shop floor	Porous Surface (Concrete)	Approx. 8,000 SF

The above locations are outlined in floor plans and site sketches located in Attachment III.

Sampled Surfaces: Surfaces anticipated to be sampled under the scope of this project include: Concrete and Wood.

Depth Intervals: The initial sample for each location shall be collected from a 0-0.5" below grade (bg) depth interval. Additional samples may be collected at further depth intervals based on analytical results from the initial sample.

Project Criteria: Unless further EPA approval for site-specific criteria is granted during the course of this project, this SAP identifies the TSCA cleanup criteria of less than 1 part per million (<1ppm) as the project threshold for disposal in a TSCA-approved landfill. Contingent-based site criteria may be approved by the EPA and if approved by EPA, such as <50 ppm for disposal at a Resource Conservation and Recovery (RCRA) site (e.g. Pennsylvania licensed landfill).

Part 3: Sample Collection Methods

All samples shall be collected in accordance with the following site-specific Standard Operating Procedure (SOP):

Equipment:

- Administrative
  - Safety equipment per HASP
- Survey
  - Tape measure
  - Survey stakes or flags
  - High-visibility survey marking paint
  - Paint applicator
- Documentation
  - Chain of custody forms
  - Field collection forms
  - Labeling supplies
  - Markers/pens
- Sample collection
  - Collection container (2-oz glass jar)
  - Coolers/ice
  - Power supply (generator/fuel)
  - Nitrile gloves
- Soil Sampling Equipment
  - Hand auger
  - Core device
  - Spade/trowel/shovel
- Hard Porous (Concrete) Sampling Equipment
  - Impact hammer drill
  - 1" SDS drill bits
  - Collection device (cubitainer, shroud)
- Soft Porous (Wood) Sampling Equipment
  - Wood chisel
  - Knife
  - Hammer
  - Nitrile gloves
- Decontamination Supplies
  - Hexane
  - Plastic sheeting
  - Towels
  - Deionized water
  - Containers
  - 5-gallon buckets
  - Scrub brush
  - Detergent (Alconox solution)

Preparation:

1. Review sampling plan and discuss project, including schedules, logistics, access and HASP.
2. Procure and pre-clean all sampling equipment.

Sample Location:

1. Where applicable, establish the 10 ft by 10 ft grid overlay for the delineated area.
2. Samples shall be collected at the intersection of each grid line.
3. Remove any dirt or debris at the sample location with a clean brush or towel.
4. The sample shall be collected immediately adjacent to the intersection of each grid line. Do not collect the sample where the area has been marked.

Sample Collection:

1. Hard Porous Surfaces (Concrete)

- Lock the 1-inch diameter SDS drill bit into the impact hammer
- Remove debris from the actual sample location
- Place the collection device (cubitainer) on the surface with the drill bit access hole directly over the point of collection.
- Begin drilling with steady, even pressure.

    - Do not apply excessive pressure that may generate heat and damage the drill bit).
- Allow adequate amount of material volume to accumulate in the collection device. A minimum of 5 grams is needed for laboratory analysis.
    - Do not exceed delineated depth below grade for the sampled interval.
    - If additional volume is needed to obtain minimum sample quantity, multiple holes located closely to each other may be used.
- Transfer sampled material into the 2-ounce glass container, label and seal with provided Teflon lid.
- For samples at additional depth intervals:
    - Collect the first sample
    - Clean out the hole
    - Begin drilling for the next depth interval. Sampled material may be collected with a stainless steel spoon or a vacuum pump

2. Soft Porous Surfaces (Wood)

- With a chisel or knife, score a 1-inch by 1-inch square into the surface to be sampled.
- Removed the sample material to the appropriate depth interval
- Transfer sampled material into the 2-ounce glass container, label and seal with provided Teflon lid.

All samples shall be maintained in accordance with chain-of-custody protocols.

Sample Handling: Samples are to be maintained and shipped in a cooler on ice, approximately 6°Celcius, until the time of extraction and analysis. The suggested holding time for PCB samples is 14 days to extraction.

Decontamination: All sampling equipment shall be decontaminated between sample collection for each single sample and after each composited sample using the following procedure:

1. Gross debris can be removed by a gloved hand.
2. Equipment will be wiped with an agitator (brush, towel) utilizing an Alconox (or equivalent) solution prepared per instructions on product label.
3. Equipment will then be rinsed with distilled water and wiped dry with a disposable towel.
4. All rinsate and disposable cleaning materials (towels, wipes) will be containerized in plastic 5-gallon buckets and minimum 4-mil plastic bags, respectively.

Sample Documentation: Samples will be labelled and field documented on log forms and chain-of-custody forms per the following procedure:

Sample Nomenclature- Each sample ID shall include the sample event type, building number, and sequential grid point number with a depth profile identifier (see below).

For example: **1-3-12A**, where:

- 1 = Initial sample event
- 3 = Building 3
- 12 = Grid point number
- A = 0-0.5” depth profile.

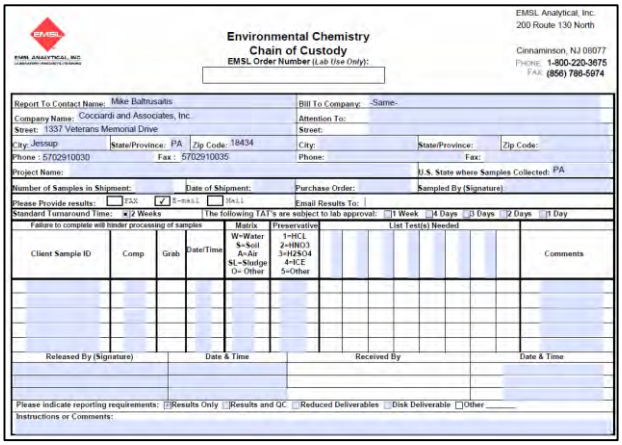
Log Forms- Each sample collected shall be documented on the project log form found in Figure 2 below.

Chain-of-Custody- Strict chain-of-custody protocols shall be maintained for all collected samples. Samples to be submitted for laboratory analysis will be documented on the laboratory-specific chain-of-custody form found in Appendix C and depicted in Figure 3. Note that it is anticipated that all samples designated for laboratory analysis will be submitted to EMSL Analytical, Inc. in Cinnaminson, New Jersey.

Client:	Scranton-Lace Affiliates	Date(s):	
Project/Site:	Scranton-Lace	Personnel:	
Project No.:	150794		

Building	Sample ID	Substrate	Depth	Type	Comments	Result

Figure 2: Sample Log Form



EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077
Phone: 1-800-220-3675
Fax: (856) 786-5974

Environmental Chemistry Chain of Custody
EMSL Order Number (Lab Use Only):

Report To Contact Name: Mike Baltrusaitis		Bill To Company: -Same-	
Company Name: Cocciardi and Associates, Inc.		Attention To:	
Street: 1337 Veterans Memorial Drive		Street:	
City: Jessup	State/Province: PA Zip Code: 18434	City:	State/Province: Zip Code:
Phone : 5702910030	Fax : 5702910035	Phone:	Fax:
Project Name:			U.S. State where Samples Collected: PA
Number of Samples in Shipment:	Date of Shipment:	Purchase Order:	Sampled By (Signature):
Please Provide results: ☐ FAX ☑ E-mail ☐ Mail		Email Results To:	
Standard Turnaround Time: ☒ 2 Weeks	The following TAT's are subject to lab approval: ☐ 1 Week ☐ 4 Days ☐ 3 Days ☐ 2 Days ☐ 1 Day		

Failure to complete will hinder processing of samples

Client Sample ID	Comp	Grab	Date/Time	Matrix W=Water S=Soil A=Air SL=Sludge O= Other	Preservative 1=HCL 2=HNO3 3=H2SO4 4=ICE 5=Other	List Test(s) Needed	Comments

Released By (Signature)	Date & Time	Received By	Date & Time

Please indicate reporting requirements: ☐ Results Only ☐ Results and QC ☐ Reduced Deliverables ☐ Disk Deliverable ☐ Other _____
Instructions or Comments:

Figure 3: Chain-of-Custody

Part 4: Laboratory Analysis

All samples shall be submitted to an accredited laboratory for analysis via EPA- Test Methods for Evaluating Solid Waste, Physical/Chemical Methods- PCBs by Gas Chromatography, EPA SW-846 3550B/8082A/608.

Part 5: Quality Assurance and Control Provisions

The following Quality Assurance and Quality Control provisions have been assigned for this project, and are consistent with standard industry guidelines and practices.

1. All sampling equipment shall be pre-cleaned and subsequently decontaminated in accordance with this SAP prior to new sample collection.
2. All personnel that may handle samples shall don nitrile gloves throughout sample collection and handling. Gloves will be changed between samples.
3. Samples will be analyzed within designated holding times.
4. Cocciardi shall ensure that the analytical laboratory selected for this project maintains current national and Pennsylvania accreditation for the referenced analytical method. A copy of current accreditation documentation is attached in Appendix D.
5. Repeat samples shall be taken for a minimum of 5% of the sample locations. This shall occur by the following process:
    a. Repeat sample locations shall be selected through random selection measures
    b. After initial sample collection for the location is complete, a repeat sample will be collected adjacent to the initial sample point in any direction.
    c. Sampling shall then occur by the measures outlined in Part 2 and Part 3 of this SAP, including similar procedures for aliquot and sample depths.
    d. The sample shall be identified with a capital "R" next to the cell number to denote the repeat sample. For example: **1-3-12A-R.**

COCCIARDI and Associates, Inc.

Safety • Environmental Health • Emergency Preparedness
Consulting and Training

Attachment II

Health and Safety Plan

Provided To:

United States Environmental Protection Agency

Notification and Certification in compliance with 40 CFR 761.61(a)(3)

Cocciardi Project No. 150794

HEALTH AND SAFETY PLAN

ENVIRONMENTAL CHARACTERIZATION AND REMEDIATION ACTIVITIES:

SCRANTON LACE BUILDING COMPLEX
1313 MEYLERT AVENUE
SCRANTON, PA 18509

PREPARED FOR:

LACE BUILDING AFFILIATES, LP
2537 FLOWING SPRINGS ROAD
CHESTER SPRINGS, PA 19425

CERTIFIED/PREPARED BY:

JOSEPH A. COCCIARDI, PHD, CIH, CSP, REHS, RS
COCCIARDI AND ASSOCIATES, INC.

COCCIARDI and Associates, Inc.
Safety • Environmental Health • Emergency Preparedness
Consulting and Training

Revision Date: June 27, 2016
Expires: December 31, 2017, Unless Revised

Version 2.0

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SITE HEALTH AND SAFETY PLAN

A. SITE DESCRIPTION:

Site Name: **SCRANTON LACE PROJECT**
1313 Meylert Avenue
Scranton, PA 18509

Effective Date: June 27, 2016 Original Expiration Date: December 31, 2016

Version: 1.0 [X] original Original plan dated: June 27, 2016
Version: 2.0 Revision dated: December 1, 2016

Certified/Prepared by: Joseph A. Cocciardi, PhD, CIH, CSP, REHS, RS Signature

This plan is developed to identify, evaluate and control health and safety hazards, ensure regulatory compliance, and provide for emergency response capabilities within remedial areas under the control of Lace Building Affiliates, LP at 2537 Flowing Springs Road, Chester Springs, PA.

Adopted by reference to this Health and Safety Plan (HASP) are all requirements of the **U.S. Department of Labor, Occupational Safety and Health Administration (OSHA)[1] Construction Industry Safety Standard 29CFR1926,** as appropriate and the **Pennsylvania Department of Labor and Industry (PADOLI): Asbestos Accreditation Standards**.[2] Additionally, adapted are all components of the **Cocciardi and Associates Health and Safety Manual[3] (1/1/16).**

Actions that are addressed in this HASP include sampling, characterization of environmental health hazards, demolition and environmental restoration activities at the Lace site.

This plan will expire December 31, 2017, unless reauthorized.

The Health and Safety Plan will be implemented in the field by the identified site supervisors and designated Site Safety and Health Officer(s) or OSHA competent persons.[4] for this

[1]US Department of Labor: Construction Industry Safety Standards: 29CFR1926; Occupational Safety and Health Administration, Washington DC; Current.
[2] Commonwealth of Pennsylvania: Department of Labor and Industry; Asbestos Accreditation Act; Bureau of Occupational and Industrial Safety; Harrisburg PA; 1992.
[3] Cocciardi and Associates: Safety Manual; Mechanicsburg, PA; January, 2016.
[4] A Competent Person is defined by OSHA as an individual whom by training and education can recognize hazards and has the authority to make corrections. For all ACM activities the competent person shall be currently licensed by PADOLI as an Asbestos Supervisor.

project. This plan will be used to monitor contractor operations for potential site hazards, specified in **Table 1**, as well as compliance with the U.S. Department of Labor Occupational Safety and Health regulations and those of the local authorities having jurisdiction, including the City of Scranton, PA and The Commonwealth of Pennsylvania.

Based on the preliminary information acquired during the site review, the hazardous substances and physical hazards onsite are identified in **Table 1**. Site exposure monitoring was performed to characterize employee exposures on or adjacent to the site activities covered by this plan, and are referenced here-in.

Table 1, below, lists site physical hazards and hazardous substances which may be present at this site, with applicable protective actions as identified within this HASP.

TABLE 1
SITE ENVIRONMENTAL HAZARDS: SCRANTON LACE CHARACTERIZATION AND REMEDIAL ACTIVITIES: 2016

HAZARD	EXPOSURE CRITERIA	ACTIONS	COMMENT
Temperature Extremes: (Heat and Cold Stress Hazard)	See Section P See Section W	Site monitoring for individuals using impervious clothing (tyvek) OR working in temperatures >80°F	This procedure is defined in Section P and Section W of this HASP.
Hot Work: (Fire Hazard)	See Section L	Hot Work and Fire Watch	Fire Watch requirements meet those of The National Fire Protection Association (NFPA)[5] and the American National Standards Institute (ANSI)[6]
Hazardous Energy Source: (Electrical or stored energy hazard)	See Section S	Lockout/Tagout of All Hazardous Energy Sources will occur	Group or gang lockouts will not be used. See Section R for live electrical work (50-480 volts).
Permit Required Confined spaces (PRCS)	All activities will meet the OSHA PRCS construction rules: 29CFR1926 sub section AA.	Complete permit prior to entry (see Appendix C2)	Continuous air monitoring will be performed while PRCS are occupied.

[5] National Fire Protection Association (NFPA); NFPA51B: Standard for Fire Prevention during welding, cutting and other hot work; 2014.

[6] American National Standards Institute (ANSI); ANSI249.1: Safety in Welding, Cutting and Allied Processes, 2012

TABLE 1 (CONTINUED) SITE ENVIRONMENTAL HAZARDS: SCRANTON LACE CHARACTERIZATION AND REMEDIAL ACTIVITIES: 2016			
HAZARDOUS SUBSTANCES	**EXPOSURE CRITERIA**	**ACTIONS**	**COMMENT**
Asbestos Containing Materials: (ACM)	0.1 f/cc TWA_8 1 f/cc 30 minute S.T.E.L.	All actions will be accomplished in compliance with the OSHA regulations 26CFR1926.1101, as defined in the specifications for Asbestos Abatement activities and the US EPA NESHAP submittal for this site.	1. An ACM Supervisor/Inspector will be onsite at all times when select demolition which may disturb or uncover or ACM is performed. 2. [Note: A negative exposure assessment has been produced for activities on site which do not disturb ACM (i.e. class IV ACM activities as defined by OSHA).
Airborne Hazards: Particles: Not Otherwise Classified (PNOC), including mold.	5 mg/m^3 respirable fraction of total dusts; 15 mg/m^3 total dusts	Dusty areas will be wetted to reduce airborne emissions	Dusts may be released during cleaning. All dust will be assumed to be respirable. Note: A negative exposure assessment has been produced for mold areas < 100 $Ft.^2$ onsite and (continuous) and wetted manual movement debris activity /onsite.
Noise	90 dBA (TWA_8)	Operations which are identified as "noisy" will be characterized.	As of 1 July 2016 there are no "noisy" operations on site.
Work at Heights	Applies to areas where falls of 6' or more may occur	Fall protection per sections "T" of this HASP.	All fall protection areas will be supervised by a competent person.[4] This includes all roof areas.
Polychlorinated Biphenyls (CPCB)	0.5 mg/m^3 of total PCB, and 0.001 mg/m^3 of total PCB for all unprotected exposures.	PCB areas have been designated on site	Activities include site characterizations and PCB remedial activities.
Lead Based Paint	30 $\mu g/m^3$ (Action Level) – TWA_8 50 $\mu g/m^3$ (TWA_8)		A negative exposure assessment is in place for lead hazards during assessment activity. This does not characterize activities which impact/disturb lead.

B. PROJECT OBJECTIVES AND ACTIVITIES:

The following areas of work/activities are addressed by this HASP:

ACTIVITY 1: ONSITE SAMPLING AND ANALYSIS TO CHARACTERIZE SITE ENVIRONMENTAL HAZARDS:

ACTIVITY 2: ASBESTOS ABATEMENT ACTIVITIES:

ACTIVITY 3: COLLECTION AND DISPOSAL OF ENVIRONMENTALLY REGULATED MATERIALS:

ACTIVITY 4: POLYCHLORINATED BIPHENYL (PCB) REMOVAL AND DISPOSAL:

ACTIVITY 5: PROJECT HEALTH, SAFETY AND ENVIRONMENTAL OVERSIGHT:

C. ONSITE ORGANIZATION AND COORDINATION:

The following personnel are designated to carry out job functions onsite; as stated in this Health and Safety Plan.

Project Manager:	Michael R. Baltrusaitis, CHMM Cocciardi and Associates, Inc. 1337 Veterans Memorial Drive Jessup, PA 18434 Work # (570) 291-0030 Cell # (570) 575-8100 Fax # (570) 291-0035
Project Safety Officer:	Joseph A. Cocciardi, PhD, CIH, CSP, REHS, RS Cocciardi and Associates, Inc. 4 Kacey Court Mechanicsburg, PA 17055 Work # (717) 766-4500 Cell # (717) 215-5676 Fax # (717) 766-3999

The Site Safety Officer reports to the Project Manager at all times, while onsite.

D. ONSITE CONTROL:

Lace Building Affiliates and designated contacts coordinate access control and security onsite. This includes access to the staging areas for personnel and subcontractors as covered by this HASP. A perimeter security fence has been established.

D1: All site activities will be performed using the buddy system

D2: All site activities will occur per an accountability schedule, which includes positive checks (time and locations) for all individuals on site.

E. PERSONAL PROTECTIVE EQUIPMENT (PPE):

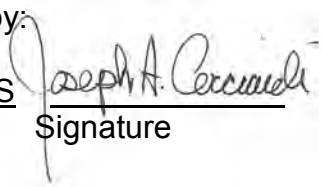
PPE requirements for site activities are found in **Table 2** Below;

TABLE 2
PPE REQUIREMENTS: SCRANTON LACE ENVIRONMENTAL CHARACTERIZATION AND REMEDIATION ACTIVITIES

AREA	ACTIVITY	PPE REQUIREMENT
On-site: All areas.	All activities	1. Head protection (ANSI-Z89.1, 2009 compliant type II, class G or E). 2. Eye protection (ANSI Z87.1, 2010), High impact rated glasses. 3. Foot Protection: ASTM - 2412-05/ASTM F2413-05 Certified Impact/Compression rated foot wear.
Areas Identified for PCB testing or remediation	Environmental sampling, core sampling or remedial activities.	4. Poly coated tyvek full body covering, with nitrile gloves. 5. Full face negative pressure respirator, fit tested and used in compliance with a written respirator program with OV/HEPA cartridges changed at no more than 30 days intervals
Asbestos abatement activities	• Site sampling or inspections • Asbestos Abatement	6. Tyvek full body covering, full face negative pressure respirator with HEPA cartridges changed at no more than 30 day intervals 7. Per contract specifications and 29CFR1926.1101

TABLE 2 (CONTINUED) PPE REQUIREMENTS: SCRANTON LACE ENVIRONMENTAL CHARACTERIZATION AND REMEDIATION ACTIVITIES		
AREA	**ACTIVITY**	**PPE REQUIREMENT**
Other environmental remediation activities 	This includes environmental recycling mold and lead containing materials clean up.	8. Per contract specifications and/or Appendix E; Work Procedures and Job Safety Analysis.

This PPE assessment was completed in compliance with the requirements of 29 CFR 1910.132(d), and is so certified June 27, 2016 by:

Joseph A. Cocciardi, PhD, CIH, CSP, REHS, RS 
Signature

F. COMMUNICATION PROCEDURES:

Positive communications will be maintained with individuals on site. This requires the identification of on-site personnel and a check/schedule when activities are completed, minimally daily.

All activities in any Work Zone shall be performed using the buddy system.

THE RALLY POINT FOR ANY SITE EVACUATION OF REMEDIAL WORKERS IS THE FRONT GATE TO THE FACILITY, ADJACENT TO THE CLOCK TOWER.

G. CLEANING, SANITATION AND DECONTAMINATION PROCEDURES:

G.1 Personal Decontamination –

Decontamination locations will be established adjacent to work zones, and the following decon procedures will occur, for all individuals working on site:

Step 1: Remove gross debris from shoes and/or PPE in work zones, and wipe shoes with a chlorinated solution.

Step 2: Wash hands prior to eating/drinking or smoking. This capability will be identified prior to any action on site

Step 3: Shower at the completion of each work shift.

G.2 Specified Decontamination procedures will be developed for PCB remedial actions and Asbestos Abatement activities.

G.3 Emergency Decontamination: Eyewash Stations:

Emergency decontamination will consist of a single procedure: **immediate flushing of affected personnel with water. Emergency eye wash solutions wil be maintained for all on site actions covered by this plan.**

THIS HASP AND THE U.S. DOT ERG-2012 SHALL BE MAINTAINED ONSITE BY THE SITE SAFETY OFFICER.

H. SITE SAFETY AND HEALTH PROCEDURES:

H.1 Site Safety Officers are directly responsible to the Project Manager for safety recommendations onsite. **THIS INDIVIDUAL IS AUTHORIZED TO STOP ALL ACTIVITIES IN THE EVENT IMMEDIATELY DANGEROUS SITUATIONS (IDLH) OR EMERGENCIES ARE OBSERVED.** Immediately dangerous situations are defined as those, which may cause irreversible harm within thirty minutes of exposure to workers, or may prohibit immediate exit from the site.

H.2 Emergency Medical Care:

Currently certified First Aid/CPR/AED personnel will be present onsite for all activities (Safety Officers).

The Site Safety Officer maintains first aid supplies, including an AED and basic first aid kits, at all times when work is occurring on site.

Community EMS and hospital facility contact information is identified in this Plan (See Appendix D).

I. SAFETY TRAINING:

Training and informational briefings shall be provided to all individuals working onsite in work zones. Training is covered in **Table 3** below:

TABLE 3 SAFETY TRAINING REQUIREMENTS	
1. All site personnel	• HASP briefing and Hazard Communication training as appropriate for any hazardous substances used.
2. Site Workers performing environmental activities	• Hazardous Waste Operations and Emergency Response (HAZWOPER) Site Worker/Supervisor training. [29CFR1910.120(e)], including Asbestos Class IV training and PRCS training.
3. Site Workers performance asbestos abatement activities	• Asbestos Worker/Supervisor training and current license as issued by the PA Department of Labor and Industry (PADOLI).

Site visitors will be accompanied by a site safety trained person at all times.

J. REVIEW OF SAFETY PROCEDURES AND HASP:

The effectiveness of this HASP shall be checked routinely (daily) by the Site Safety Officer, and documented. Any deficiencies reported in the effectiveness of the site Health and Safety Plan shall be corrected by the Project Manager or appropriate contractor. The Site Safety Officer reports to the Supervisor onsite. The Site Safety Officer has the authority to STOP activities, which are judged to be immediately dangerous to life or health (IDLH)[7].

K. ILLUMINATION:

All work sites shall, as a minimum, be illuminated to a level of 5-foot candles or greater, as required by the Site Safety Officer, or the requirements of 29CFR1926.65(m). Safety officers will check this requirement.

L. HOT WORK PROCEDURES:

Hot work may occur during this project. Hot work shall be defined as any work involving electric or gas welding, cutting, brazing, or similar flame or spark producing operation. A ready for hot work certification shall be completed by the Site Safety Officer for all hot work (See Appendix C). Completed/cancelled hot work permits shall be maintained with the final project safety report and be documented in the daily safety log.

Procedure

- All hot work will be authorized by the site safety officer and documented in the site safety log. A minimum of two individuals will be assigned hot work (this includes the fire watch).
- A fire extinguisher will be placed no more than 30' from the hot work location. Multiple (X2) fire extinguishers be located at hot work sites.
- The hot work site will be inspected by the safety officer for excessive combustibles or voids which would allow sparks onto other areas, and cover same or preclude hot work. This will occur prior to hot work initiation.
- The hot work permit will be posted at the work site.
- Hot work will occur.
- The safety officer will re-check the site 30 minutes after work is completed, return the permit (cancelled) and fire extinguisher, and document the cancelled permit in the safety log.

[7] IDLH activities are those defined as potentially producing irreversible health effects with 30 minutes or less of exposure OR which preclude a worker from evacuating the worksite in a safe manner (e.g. eye exposure to corrosive materials).

M. PERMIT REQUIRED CONFINED SPACE ENTRY PROCEDURES

All permit required confined space entry procedures will follow the OSHA procedures at 29CFR1926. Sub part AA and the referenced Cocciardi Safety Manual. The PRCS permit is appended to this HASP, at Attachment V.

N. EMERGENCY PROCEDURES AND EMERGENCY ACTION PLAN:

AGENCY/FACILITY	CONTACT	COMMENT
Onsite Safety Officer or Fire Watch	Verbal/Radio	First aid and Incipient Fire Response, with equipment at the worksite. This includes eyewash equipment, an AED/first aid kit and fire extinguisher(s) for the site. Note: Fire Watch activities occur for 30 minutes subsequent to hot work. Multiple (X2) fire extinguishers or will be present at all hot work.
Fire, Police, EMS Emergency: City of Scranton	911	Emergency
Geisinger Community Medical Center 1800 Mulberry Street Scranton PA 18509	(570) 969-8000	(See map at Appendix D)
CVS 110 Green Ridge St Scranton PA 18509	(570) 344-7400	(See map at Appendix D)

The following standard emergency procedures will be used by onsite personnel. The Site Safety Officer shall be notified of any onsite emergencies and be responsible for ensuring that the appropriate procedures are followed.

Personnel Injury in the Work Zones: In the event of an injury in the Work Zones, the Safety Officer shall be notified. The onsite qualified First Aid/CPR person(s) (Safety Officer/Competent Person) shall initiate the appropriate first aid and contact will be made for emergency services (911). Work shall not restart until the cause of the injury or symptoms is determined and work continuation is authorized by the Site Safety Officer and Project Manager.

Fire/Explosion: In the event of a fire or explosion onsite all site personnel shall evacuate to the rally point. **The rally point for a fire evacuation is the Clock tower at the front of the facility.**

In all situations, when an onsite emergency results in evacuation of Work Zones, personnel shall not re-enter until:

The conditions resulting in the emergency have been corrected; and
The hazards have been reassessed; and
The Site Safety Plan has been reviewed and changes made, if appropriate; and
Site personnel have been briefed on any changes in the Site Safety Plan; and
Restart has been authorized by the Project Coordinator and Site Safety Officer.

Emergency Equipment:

A minimum of X2 Fire extinguishers will be onsite when work is occurring.

Fire extinguishers shall be placed/inspected daily by the Site Safety Officer, and located at all hot work activities.

A minimum of an AED and first aid kit complying with ANSI Z-308.1 – 2003 will be required onsite at all times, and be accessible to all work locations within a three (3) to five (5) minute timeframe. Portable eyewash bottles/stations will be on site when all cleaning agents (hazardous substances) are used, other work zone activities are occurring.

All first aid equipment shall be inspected daily by the Site Safety Officer.

O. SITE SAFETY RULES:

A. No smoking is permitted within controlled areas.

B. Eating, drinking or the application of cosmetics may only be permitted in approved break areas (No eating, drinking or application of cosmetics in the work area).

C. Adequate exits will be maintained onsite at all times. **This is a minimum of X2 exits from <u>ALL</u> work locations shall be identified and maintained by the Site Safety Officer. All workers will decontaminate and remove PPE prior to entry into break areas.**

D. Combustible materials will not be stored within the work area. Oxidizers will not be stored/used on grounds without amendment to this site safety plan. Oxidizer use shall be considered Hot Work for the purposes of this HASP.

E. Live Electrical Work (Section H) must first be approved by the Safety Officer/Project Coordinator, in compliance with this HASP. Lockout/tagout protocol are required.

F. Jewelry and loose items are prohibited within the work zones. This includes lanyards and ID tags, which will be maintained adjacent to work areas.

G. All activities on site will be performed using the BUDDY SYSTEM.

P. WORK REGIMEN, HEAT:

Excessive heat presents a serious hazard, especially when coupled with high humidity. When the body is unable to cool by sweating, heat-induced illnesses such as heat exhaustion and the more severe heat stroke can occur. High temperature and humidity, direct sun or heat, limited air movement, impervious clothing, physical exertion, poor physical condition, some pharmaceuticals and inadequate tolerance for hot environments are all factors that can lead to heat related illnesses.

Heat Stress is the net load to which personnel may be exposed from the combined factors, identified above. As the heat stress approaches human tolerance levels, the risk of heat related disorders increase.

Heat Strain is the overall physiological response resulting from heat stress dissipating excess heat from the body.

Acclimatization is the gradual physiological adaptation that improves an individual's ability to tolerate heat stress. **Acclimatization is defined as two (2) hours per day, five (5) of the previous seven (7) days (10 of previous 14 days) in similar temperatures to those in the work area, while performing moderate work.**

This Program provides guidelines to which it is believed all heat acclimatized, adequately hydrated, un-medicated healthy workers may be repeatedly exposed to environmental heat without adverse health effects[8],[9] . Additionally, this Program requires training of all workers

[8] American Conference of Governmental Industrial Hygienist (ACHIH): Threshold Limit Values and Biological Exposure indexes: Heat Stress and Strain; Cincinnati, OH 2011.

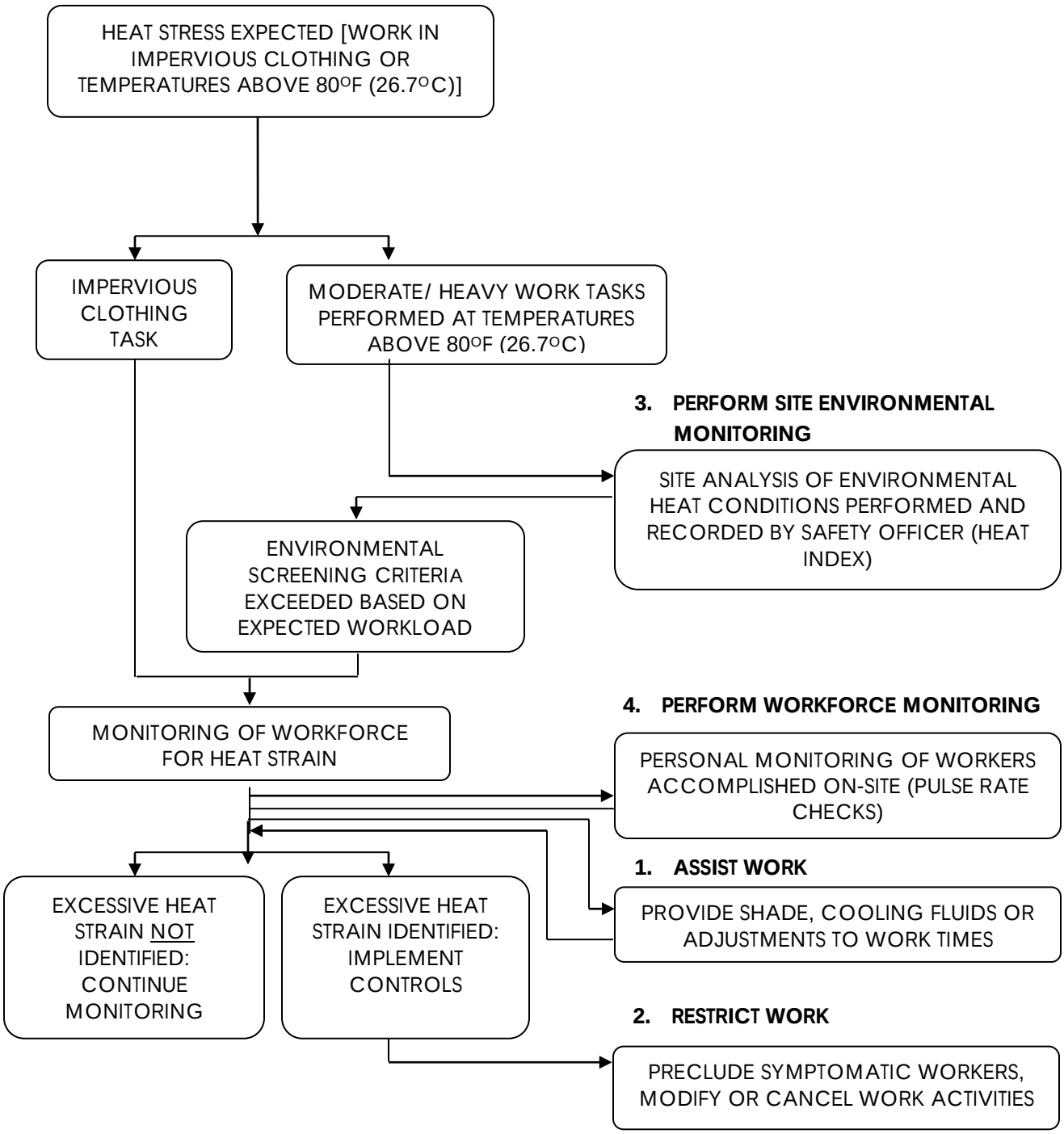
[9] U.S. Public Health Service: CDC; National Institute for Occupational Safety and health (NIOSH): Occupational Safety and Health Guidance Manual for Hazardous Waste Site Activities, Chapter 8, October 1985.

who will use impervious clothing concerning heat stress and strain, including hydration requirements, signs and symptoms of heat strain, and administrative actions to be implemented in the event heat stress triggers are exceeded.

The heat stress evaluation process and program is described in **Table 5**, below.

Steps identified in **Table 4** are described below.

TABLE 4
HEAT STRESS/STRAIN MANAGEMENT PROCESS



Note to Table 2: Impervious clothing includes limited use vapor barrier coveralls (e.g. Tyvek Suits); moderate work includes sustained/moderate hand or arm work (e.g. maintenance activities); heavy work includes intense arm or trunk work, carrying, manual labor such as pushing or pulling loads (e.g. scraping). Impervious clothing may be used for various cleaning tasks as specified in this HASP.

Site Environmental Monitoring (HEAT): Site environmental monitoring is performed by the Safety Officer and identifies environmental thresholds at which additional protective measures will occur. When screening values are exceeded, monitoring of the workforce or restriction of work may be required. Monitoring for heat indices will occur at 80°F. The heat index may be used to trigger action.

TABLE 5
NOAA's NATIONAL WEATHER SERVICE: HEAT INDEX

Temperature (°F)

Relative Humidity (%)	80	82	84	86	88	90	92	94	96	98	100	102	104	106	108	110
40	80	81	83	85	88	91	94	97	101	105	109	114	119	124	130	136
45	80	82	84	87	89	93	96	100	104	109	114	119	124	130	137	
50	81	83	85	88	91	95	99	103	108	113	118	124	131	137		
55	81	84	86	89	93	97	101	106	112	117	124	130	137			
60	82	84	88	91	95	100	105	110	116	123	129	137				
65	82	85	89	93	98	103	108	114	121	126	130					
70	83	86	90	95	100	105	112	119	126	134						
75	84	88	92	97	103	109	116	124	132							
80	84	89	94	100	106	113	121	129								
85	85	90	96	102	110	117	126	135								
90	86	91	98	105	113	122	131									
95	86	93	100	108	117	127										
100	87	95	103	112	121	132										

Likelihood of Heat Disorders with Prolonged Exposure or Streuous Activity

Caution | Extreme Caution | Danger | Extreme Danger

The following heat index action points and associated work/rest cycles are identified. These are conservative action points: Heat Index of <90°F ; Heat Index of <103°F ; Heat Index of <121°F ; Heat Index of >121°F . A reduction of one (1) level flag will be imposed upon non-acclimatized workers.

TABLE 6
HEAT STRESS EVALUATION PROCESS AND PROGRAM

Action Point	Work % in Work/Rest Cycle[1]	Heat Index
	75% - 100%	>80°F
	50% - 75%	<90 ^{o}F
	25% - 50%	<103 ^{o}F
	0% - 25%	<121 ^{o}F
	0%	>121 ^{o}F

Workforce Monitoring: Workforce monitoring (PULSE RATE CHECKS) initiates at temperatures of 80°F or above, or when workers utilize impervious clothing. It is designed to limit heat strain. Workforce monitoring occurs through pulse measurements, performed when work cycles end and rest cycles are initiated.

A rapid pulse of >110 bpm will require a rest period and a shortened work period by 1/3 (subsequent work regimen). Return to work subsequent to rest cycles occurs when a resting pulse has been achieved (i.e. <110 bpm), unless additional indications of excessive heat strain are present.

Assist Work Protocol: Assist Work Protocols are implemented onsite and provide opportunities to reduce heat stress in situations where the ACTION POINT has been exceeded (or is expected to be exceeded) during the work regimen (See **Table 6**). Assist Work Protocol include:

- Adjustment of work schedules; through administrative controls (schedule changes; work rest regimen), to reduce work below screening action limits (See **Table 6** for work/rest cycle options).
- Identification of cool areas capable of holding 50% of assigned staff (Note: Air-conditioned areas meet this requirement) at each site where this protocol is implemented. Workers are informed of cool areas and their opportunities for cooling when these are identified, by Safety Officers.
- Provision of cool fluids (50°F to 60°F) to replace lost body fluids, and onsite recommendations for personnel to drink 16 ounces of fluid prior to work shift, and small amounts of fluids at each break or monitoring regimen (e.g. 4 to 8 ounces) (Total one (1) liter per hour for the work day). Electrolyte drinks are usually not necessary but may be provided, for use upon employee request. **Potable water will be provided at worksites at a rate of 150 ounces per active responder in hot environments (i.e. >80°F) per day.**
- Provision of cooling devices for individuals with prolonged work (including extended time in impermeable clothing or severe heat exposures (i.e. when a heat index of 105°F is anticipated or identified, per NOAA's National Weather Service: Heat Index (See **Table 5**)).
- Cooling devices include:
  - Field showers or hose/misting areas.
  - Cooling jackets, vests or suits.

RESTRICT WORK PROTOCOL: Restrict Work procedures are affected when excessive heat strain has been identified. These include the restriction of participation in ongoing work by individuals or site workers. Individual work will be restricted when:

- A pulse of >104 bpm is present on workers during workforce monitoring. If evidenced, a rest cycle (e.g. shade or cooling) will be initiated for the worker and subsequent work cycles (or time until monitoring occurs) will be reduced by one-third (1/3). Workers will not be returned to work unless a resting pulse of <110 bpm is observed.
- Workers request cooling (and a minimum of 5 minutes cooling will be provided upon request, when triggers for heat stress/strain have been exceeded.

- Feelings or symptoms of heat related illnesses are observed by co-workers or Safety Officers (The Emergency Plan will be implemented).

Site work activities will be restricted when:

- Adjusted work rest regimens are indicated and implemented due to multiple symptomatic events.
- A heat index of 121°F is recorded **[Cancellation of Work]** (See NOAA Heat Index Chart above).

Q. HEARING CONSERVATION:

Hearing protection shall be worn by workers in the time necessary to characterize employee sound pressure exposure during noisy operations.

Noise levels have been characterized as <90 dBA: TWA_8 at this site.

R. ELECTRICAL SAFETY:

R.1 Live Electrical Work (50 to 480 volts)

All live electrical work (i.e. not reduced to an electrically safe work condition) must be approved by the Site Safety Officer and be performed by a Qualified Person as defined by NFPA 70E – 2012 and OSHA 29CFR1926 subpart 'K'. Live electrical work includes voltage testing to verify efficacy of lockout/tagout procedures. All live electrical work will require a Live (Energized) Electrical Work Permit with exceptions including voltage testing and troubleshooting. No unprotected or unqualified personnel shall be permitted within 4 feet of live electrical components/surfaces unless approved by the Site Safety Officer and escorted by qualified persons (if less than 480v). This boundary will be marked or otherwise communicated to site personnel. All personnel approaching within 4 feet of live electrical circuits shall don flash protective clothing. Only insulated tools (minimum rating of 1,000 volts per ASTM F 1505) shall be used.

No conductive apparel or other objects are permitted within the above perimeter. No conductive equipment shall be permitted within 10 feet of overhead lines unless approved by the Site Safety Officer, or appropriately protected and/or deenergized. Use of ground fault circuit interrupter (Type 'A' – 4-6 milliamps) is required for all extension cord use and work in conductive (i.e. wet) environments.

S. CONTROL OF HAZARDOUS ENERGY (LOCKOUT/TAGOUT)

No work shall be permitted on energized (including stored energy) equipment until appropriate lockout/tagout (LO/TO) procedures, including verification, are implemented and approved by

the Site Safety Officer. These procedures shall be performed in accordance with 29CFR1910.147, the Hazardous Energy Control Program. Only authorized personnel will be permitted to apply LO/TO devices. Tags alone will not be permitted unless equivalent effectiveness to a locking device can be demonstrated. All personnel performing work-requiring implementation of these procedures will be required to install their own device and verify efficacy. Prior to the operation of any equipment and the removal of LO/TO devices, a visual inspection shall be performed to verify all mechanisms, guards, etc. have been returned to a pre-work condition.

T. FALL PROTECTION:

All work 6 feet or greater requires positive fall protection. This includes aerial lifts, roofing work (not protected by another system) or work platforms without a guardrail system. An anchoring point with a 5,000-pound breaking strength is required for each separate worker tied off, if all arrest devices are used.

All use of fall protection equipment or safety guidelines, guardrails or a fall protection plan shall be:

a) Inspected (daily) by users.
b) Approved by the Safety Officer.

All scaffolding shall be inspected initially by the installing competent person and daily by the Safety Officer and/or competent person. All inspections shall be documented in written format (daily log).

Warning lines (10' distance from edges roofing activities) may be used for all.

U. TRAFFIC CONTROL ON ROADWAY (RESERVED):

Traffic control on roadways and parking lots will be maintained and safety zones established in compliance with the 2003 Edition of the Manual on Uniform Devices for Traffic Control (MUDTC), 2003 Edition, High Visibility clothing will be used for all site activities.

V. USE OF ANSI COMPLIANT REFLECTIVE CLOTHING:

Reflective clothing will be used as follows:

- Exterior areas segregated from roadways (e.g. construction or demolition sites), speed <25 mph, ANSI Class I or II vests. (Any work in FPL lots or parking areas).

W. WORK REGIMEN , COLD:

W.1. PURPOSE AND SCOPE

This protocol is designed to protect workers from hypothermia and cold injuries, and describes conditions under which it is believed nearly all workers can be exposed to cold without adverse health effects[10] (i.e. prevention of core body temperature from falling below 96.8ºF (36ºC) and to prevent cold injuries to extremities, with no single exposure to a cold environment producing a drop in core body temperature below 95ºF (35ºC).[11]

The program details specific activities to evaluate work, perform site environmental monitoring, perform medical screening and workforce training, perform workforce monitoring and identify work assistance and restriction actions, when the potential for hypothermia and cold injuries exist.

W.2. GENERAL REQUIREMENTS, COLD

Work regimens in cold environments are initially evaluated when temperatures below 60.8ºF (16ºC) are expected. This evaluation includes a determination of level of work (metabolic output) and sedentary state of workers, (as well as the need for fine manual dexterity), and an identification of special work conditions requiring protection, aside from those identified in this procedure.

Environmental temperatures are subsequently monitored for all temperatures below 60.8ºF (16ºC) and both temperature and wind speed (and subsequent equivalent chill temperatures [ECT]) are recorded and used to implement this plan for all environments below 30.2ºF (See **Table 7**, below).[12]

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[10] This section is a substantive compilation of two (2) thermal stress programs; The Monitoring and Measurement Program of the National Oceanic and Atmospheric Administration (NOAA), U.S. Department of Commerce/ Meteorological Services of Canada (2001), and the Threshold Limit Values of the American Conference of Governmental Industrial Hygienists (2012). It additionally contains research information developed by the U.S. Army Research Institute of Environmental Medicine, Natick, MA.

[11] Maximum severe shivering develops when body temperature drops to 95ºF (35ºC), a dangerous condition requiring immediate termination of exposure to cold. Useful mental and physical work is limited when severe shivering occurs.

[12] Wind speed recordings are measured at a height of 5 feet per NOAA NWS protocol. All temperature readings are dry bulb.

TABLE 7
COOLING POWER OF WIND ON EXPOSED FLESH EXPRESSED AS EQUIVALENT TEMPERATURE (UNDER CALM CONDITIONS)*

Estimated Wind Speed (in mph)	Actual Temperature Reading (°F)											
	50	40	30	20	10	0	−10	−20	−30	−40	−50	−60
	Equivalent Chill Temperature (°F)											
calm	50	40	30	20	10	0	−10	−20	−30	−40	−50	−60
5	48	37	27	16	6	−5	−15	−26	−36	−47	−57	−68
10	40	28	16	4	−9	−24	−33	−46	−58	−70	−83	−95
15	36	22	9	−5	−18	−32	−45	−58	−72	−85	−99	−112
20	32	18	4	−10	−25	−39	−53	−67	−82	−96	−110	−121
25	30	16	0	−15	−29	−44	−59	−74	−88	−104	−118	−133
30	28	13	−2	−18	−33	−48	−63	−79	−94	−109	−125	−140
35	27	11	−4	−20	−35	−51	−67	−82	−98	−113	−129	−145
40	26	10	−6	−21	−37	−53	−69	−85	−100	−116	−132	−148
(Wind speeds greater than 40 mph have little additional effect.)	*LITTLE DANGER* In < hr with dry skin. Maximum danger of false sense of security.				*INCREASING DANGER* Danger from freezing of exposed flesh within one minute.				*GREAT DANGER* Flesh may freeze within 30 seconds.			
	Trenchfoot and immersion foot may occur at any point on this chart.											

* Developed by U.S. Army Research Institute of Environmental Medicine, Natick, MA.

Equivalent chill temperature requiring dry clothing to maintain core body temperature above 36°C (96.8°F) per cold stress TLV®.

Subsequently actions found in **Table 8** are implemented. Work and warm up schedules, when required are described in **Table 9**, below. The Cold Work Management Process is described in **Table 10**, below.

TABLE 8
TEMPERATURE/ECT LEVELS AND ACTIONS

Temperature/ECT	Action[13]
60.8°F (16°C) Ambient Temperature	• Initiate workplace environmental temperature monitoring and perform work evaluation and identification of special work conditions. If fine work is performed with bare hands >20 minutes, establish procedures for hand warming. • Provide gloves for sedentary work. • Identify older workers or those with circulatory concerns and provide (extra) insulation or reduced work regimens between warming.

[13] Note: At all temperatures workers with extremity pain should have increased warming schedules and workers with severe shivering should have work terminated and warming initiated.

TABLE 8 TEMPERATURE/ECT LEVELS AND ACTIONS	
Temperature/ECT	**Action**[13]
40°F (4°C) ECT	• Ensure insulating, layered dry clothing impervious to water is used. • Provide gloves for light work (if manual dexterity is not required). • Provide windbreaker or windshield if windy (>5 mph). • Provide vapor barrier boots or change socks and felt insoles if they become wet. • Provide specialized procedures or protection if work will occur with evaporating liquids or those with a boiling point just above ambient temperatures. • Provide water repellent outer layer of clothing for MODERATE/HEAVY work in wet environments and change as it becomes wetted.[14]
35.6°F (2°C) ECT	• **IMMEDIATELY** change wet clothing and treat for hypothermia.
30.2°F (-1°C) ECT	• Measure and record ECT every 4 hours. • Cover metal handles of tools/control bars.
19.4°F (-7°C) ECT	• Provide gloves for MODERATE work. • Provide warning to workers when cold surfaces are in reach. • Provide heated warming areas and utilize them per TABLE and if indication of hypothermia is present. Outer layers of clothing should be removed in warming area and wet clothing changed. Warm fluids should be supplied (the intake of coffee (diuretic) should be limited).
10.4°F (-12°C) ECT	• Use of buddy system is required. • If HEAVY work is performed, adjust work/rest regimen to prevent heavy sweating and/or allow for wet clothes

[14] If areas of the body cannot be protected sufficiently to prevent sensations of excessive cold or frostbite, protective items should be provided in auxiliary heated versions OR work suspended until weather conditions improve.

TABLE 8 TEMPERATURE/ECT LEVELS AND ACTIONS	
Temperature/ECT	**Action[13]**
	changes. • Develop acclimatization schedule lasting days, for new workers in cold environments. • Minimize sitting or standing still. • Ensure worker safety training occurs.
0°F (-17°C) ECT	• Provide mittens for workers.
-11°F (-23°C) ECT	• Provide medical certification for workers.
-25.6°F (-32°C) ECT	• No continuous skin exposure (i.e. lifesaving work only occurs).

TABLE 9
WORK/WARM-UP SCHEDULE FOR A 4 HOUR SHIFT

Air Temperature/Sunny Sky		No Noticeable Wind		5 mph Wind		10 mph Wind		15 mph Wind		20 mph Wind	
°C (approx.)	°F (approx.)	Max. Work Period	No. of Breaks	Max. Work Period	No. of Breaks	Max. Work Period	No. of Breaks	Max. Work Period	No. of Breaks	Max. Work Period	No. of Breaks
-26° to -28°	-15° to -19°	(Norm. Breaks) 1		(Norm. Breaks) 1		75 min	2	55 min	3	40 min	4
-29° to -31°	-20° to -24°	(Norm. Breaks) 1		75 min	2	55 min	3	40 min	4	30 min	5
-32° to -34°	-25° to -29°	75 min	2	55 min	3	40 min	4	30 min	5	Non-emergency	
-35° to -37°	-30° to -34°	55 min	3	40 min	4	30 min	5	Non-emergency			
-38° to -39°	-35° to -39°	40 min	4	30 min	5	Non-emergency					
-40° to -42°	-40° to -44°	30 min	5	Non-emergency							
-43° & below	-45° & below	Non-emergency Work should cease		Work should cease		Work should cease		Work should cease		Work should cease	

W.3. WORK EVALUATION

Work evaluations identify the metabolic rate (expressed in Watts [W]) of the activity to be performed, and subsequent actions (**Table 8**) are based on the work evaluation results. Work categories include:

Sedentary Work: Metabolic Rate 115 W (sitting)
Light Work: Metabolic Rate 180 W (light manual work, driving and occasional walking)
Moderate Work: Metabolic Rate 300 W (sustained arm, hand, leg or trunk work and normal walking)
Heavy Work: Metabolic Rate 415W (manual labor, shoveling, pushing, pulling and fast walking)

W.4. MEDICAL MONITORING

Initial work force evaluations will identify workers with circulatory system concerns, or those with conditions which place them at risk for cold related illnesses. These include certain prescription medications (vasoconstructive drugs (e.g. nicotine), anti-depressants, anti-psychotic (sedatives), as well as symptoms which affect the body's ability to regulate temperature, (e.g. hypothyroidism, stroke, severe arthritis, Parkinson's Disease, spinal chord injuries and burns, poor physical conditioning (BMI ≥35) or a history of cold related injuries). These individuals will be provided additional insulating clothing, increased warming regimens or precluded from work.

Individuals who will work continuously in temperatures of <-11ºF (-23ºC) ECT will be approved for work by a licensed healthcare professional.

At all temperatures, workers with extremity pain or other hypothermic symptomatology will have warming regimens increased. Workers with severe shivering will have work terminated and warming initiated, and will not return to work activities without a medical approval to do so.

W.5. SPECIAL WORK CONDITIONS

Special work conditions may require actions aside from those identified in this protocol and include work in refrigerated rooms, and cold work performed in concert with toxic substances or vibration causing equipment. It includes work with evaporative liquids, cryogenic fluids or those with a boiling point just above ambient temperatures. An evaluation of the need for eye protection (UV – glare protection and ice/snow eye protection) should be performed, as a component of the initial work evaluation.[15]

W.6. WORKER TRAINING

When required, elements of worker training should include:

- Safe work practices in cold environments, including the contents of this procedure and the results of the work evaluation performed.
- Recognition of impending frostbite, hypothermia or excessive cooling when shivering does not occur.
- Proper re-warming procedures and first aid.

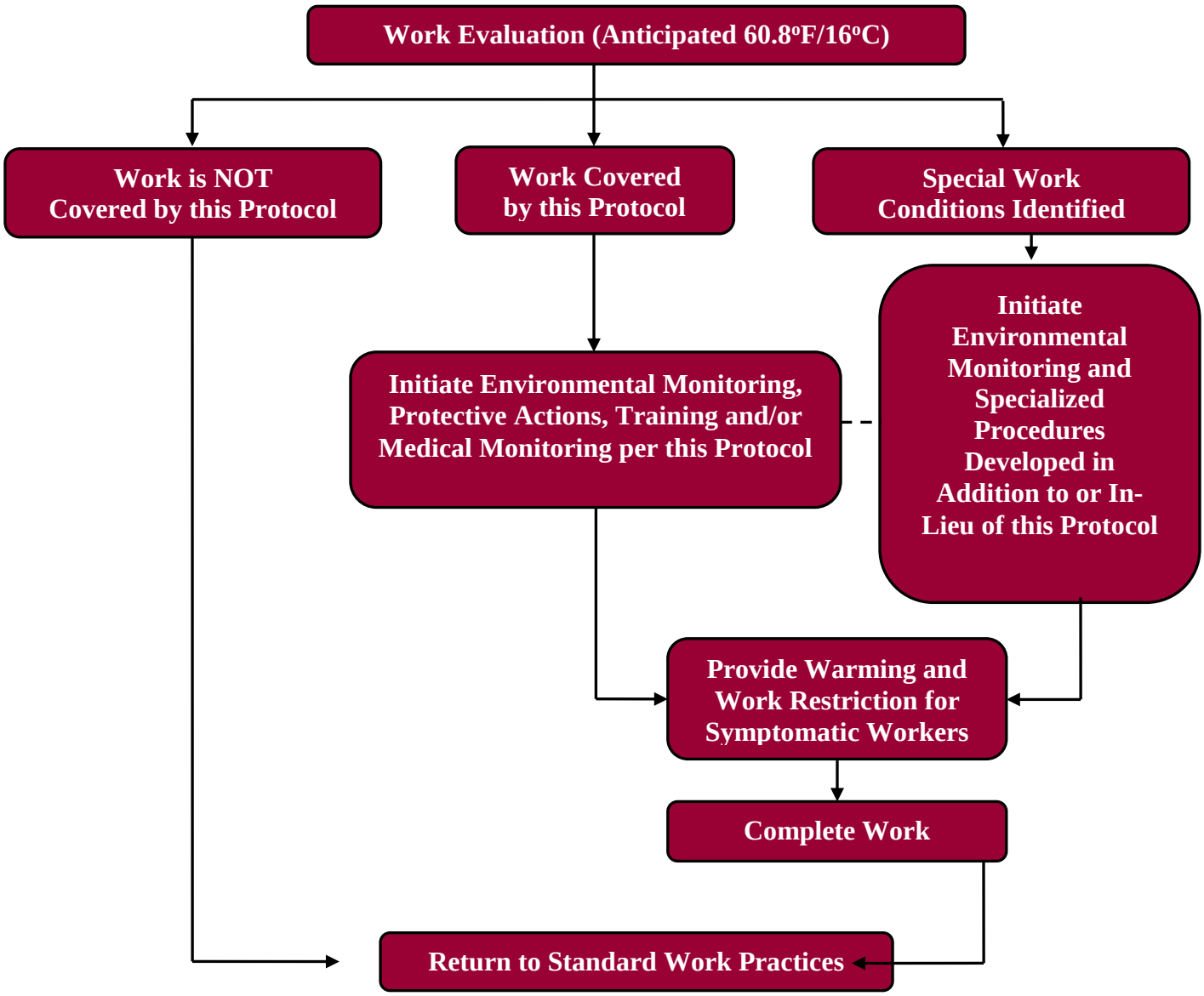
[15] All work in refrigerated areas should be engineered to eliminate wind/drafts, or wind protection (e.g. shields or windbreakers) provided. Toxic substance exposure or vibration in concert with cold environments may require a reduction in Occupational Exposure Limits (OEL) or an adjustment to work regimens. Eye protection, when provided should include UV-A/B protection and meet ANSI Z87.1 requirements for spectacles with side protection which are impact rated. These are labeled Z87+UV, glare. Work with evaporative liquids requires special protection to avoid soaking of clothing or gloves.

- Clothing and protective equipment practices for cold environments.
- Proper eating/drinking habits for cold environments.
- Medical conditions which would increase risk of hypothermic events.
- Where to acquire additional information or ask questions about cold weather work activities.

W.7. ENVIRONMENTAL MONITORING AND RECORDING

Workplace monitoring initiates at 60.8°F (16°C). At 30.2°F (-1°C), environmental monitoring occurs at 4-hour intervals, and ECT is calculated and used for all action points. All ECT below 19.4°F (-7°C) will be recorded/posted.

TABLE 10
COLD WORK MANAGEMENT PROCESS



APPENDIX A

SAFETY DATA SHEETS

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 12.08.2015 **Revision** : 12.10.2015

Trade Name: Alconox

1 Identification of the substance/mixture and of the supplier

1.1 Product identifier

Trade Name: Alconox
Synonyms:
Product number: Alconox

1.2 Application of the substance / the mixture : Cleaning material/Detergent

1.3 Details of the supplier of the Safety Data Sheet

Manufacturer	**Supplier**
Alconox, Inc. 30 Glenn Street White Plains, NY 10603 1-914-948-4040	Not Applicable

Emergency telephone number:
ChemTel Inc
North America: 1-800-255-3924
International: 01-813-248-0585

2 Hazards identification

2.1 Classification of the substance or mixture:

In compliance with EC regulation No. 1272/2008, 29CFR1910/1200 and GHS Rev. 3 and amendments.

Hazard-determining components of labeling:
Tetrasodium Pyrophosphate
Sodium tripolyphosphate
Sodium Alkylbenzene Sulfonate

2.2 Label elements:

Skin irritation, category 2.
Eye irritation, category 2A.

Hazard pictograms:

Signal word: Warning

Hazard statements:
H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary statements:
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 If on skin: Wash with soap and water.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P321 Specific treatment (see supplemental first aid instructions on this label).
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
P501 Dispose of contents and container as instructed in Section 13.

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 12.08.2015 **Revision** : 12.10.2015

Trade Name: Alconox

Additional information: None.

Hazard description

Hazards Not Otherwise Classified (HNOC): None

Information concerning particular hazards for humans and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system:

The classification is according to EC regulation No. 1272/2008, 29CFR1910/1200 and GHS Rev. 3 and amendments, and extended by company and literature data. The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

3 Composition/information on ingredients

3.1 Chemical characterization : None

3.2 Description : None

3.3 Hazardous components (percentages by weight)

Identification	Chemical Name	Classification	Wt. %
CAS number: 7758-29-4	Sodium tripolyphosphate	Skin Irrit. 2 ; H315 Eye Irrit. 2; H319	12-28
CAS number: 68081-81-2	Sodium Alkylbenzene Sulfonate	Acute Tox. 4; H303 Skin Irrit. 2 ; H315 Eye Irrit. 2; H319	8-22
CAS number: 7722-88-5	Tetrasodium Pyrophosphate	Skin Irrit. 2 ; H315 Eye Irrit. 2; H319	2-16

3.4 Additional Information : None.

4 First aid measures

4.1 Description of first aid measures

General information: None.

After inhalation:

Maintain an unobstructed airway.
Loosen clothing as necessary and position individual in a comfortable position.

After skin contact:

Wash affected area with soap and water.
Seek medical attention if symptoms develop or persist.

After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes.
Remove contact lens(es) if able to do so during rinsing.
Seek medical attention if irritation persists or if concerned.

After swallowing:

Rinse mouth thoroughly.
Seek medical attention if irritation, discomfort, or vomiting persists.

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 12.08.2015 **Revision** : 12.10.2015

Trade Name: Alconox

4.2 Most important symptoms and effects, both acute and delayed

None

4.3 Indication of any immediate medical attention and special treatment needed:

No additional information.

5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition.

For safety reasons unsuitable extinguishing agents : None

5.2 Special hazards arising from the substance or mixture :

Thermal decomposition can lead to release of irritating gases and vapors.

5.3 Advice for firefighters

Protective equipment:

Wear protective eye wear, gloves and clothing.
Refer to Section 8.

5.4 Additional information :

Avoid inhaling gases, fumes, dust, mist, vapor and aerosols.
Avoid contact with skin, eyes and clothing.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures :

Ensure adequate ventilation.
Ensure air handling systems are operational.

6.2 Environmental precautions :

Should not be released into the environment.
Prevent from reaching drains, sewer or waterway.

6.3 Methods and material for containment and cleaning up :

Wear protective eye wear, gloves and clothing.

6.4 Reference to other sections : None

7 Handling and storage

7.1 Precautions for safe handling :

Avoid breathing mist or vapor.
Do not eat, drink, smoke or use personal products when handling chemical substances.

7.2 Conditions for safe storage, including any incompatibilities :

Store in a cool, well-ventilated area.

7.3 Specific end use(s):

No additional information.

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 12.08.2015 **Revision** : 12.10.2015

Trade Name: Alconox

8 Exposure controls/personal protection

8.1 Control parameters :

7722-88-5, Tetrasodium Pyrophosphate, OSHA TWA 5 mg/m3.

8.2 Exposure controls

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Respiratory protection:

Not needed under normal conditions.

Protection of skin:

Select glove material impermeable and resistant to the substance.

Eye protection:

Safety goggles or glasses, or appropriate eye protection.

General hygienic measures:

Wash hands before breaks and at the end of work.
Avoid contact with skin, eyes and clothing.

9 Physical and chemical properties

Appearance (physical state, color):	White and cream colored flakes - powder	**Explosion limit lower**: **Explosion limit upper**:	Not determined or not available. Not determined or not available.
Odor:	Not determined or not available.	**Vapor pressure at 20°C**:	Not determined or not available.
Odor threshold:	Not determined or not available.	**Vapor density**:	Not determined or not available.
pH-value:	9.5 (aqueous solution)	**Relative density**:	Not determined or not available.
Melting/Freezing point:	Not determined or not available.	**Solubilities**:	Not determined or not available.
Boiling point/Boiling range:	Not determined or not available.	**Partition coefficient (n-octanol/water)**:	Not determined or not available.
Flash point (closed cup):	Not determined or not available.	**Auto/Self-ignition temperature**:	Not determined or not available.
Evaporation rate:	Not determined or not available.	**Decomposition temperature**:	Not determined or not available.

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 12.08.2015 **Revision** : 12.10.2015

Trade Name: Alconox

Flammability (solid, gaseous):	Not determined or not available.	**Viscosity**:	a. Kinematic: Not determined or not available. b. Dynamic: Not determined or not available.
Density at 20°C:	Not determined or not available.		

10 Stability and reactivity

10.1 Reactivity : None

10.2 Chemical stability : None

10.3 Possibility hazardous reactions : None

10.4 Conditions to avoid : None

10.5 Incompatible materials : None

10.6 Hazardous decomposition products : None

11 Toxicological information

11.1 Information on toxicological effects :

Acute Toxicity:

Oral:

: LD50 > 5000 mg/kg oral rat - Product .

Chronic Toxicity: No additional information.

Skin corrosion/irritation:

Sodium Alkylbenzene Sulfonate: Causes skin irritation.

Serious eye damage/irritation:

Sodium Alkylbenzene Sulfonate: Causes serious eye irritation .

Tetrasodium Pyrophosphate: Rabbit - Risk of serious damage to eyes .

Respiratory or skin sensitization: No additional information.

Carcinogenicity: No additional information.

IARC (International Agency for Research on Cancer): None of the ingredients are listed.

NTP (National Toxicology Program): None of the ingredients are listed.

Germ cell mutagenicity: No additional information.

Reproductive toxicity: No additional information.

STOT-single and repeated exposure: No additional information.

Additional toxicological information: No additional information.

12 Ecological information

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 12.08.2015 **Revision** : 12.10.2015

Trade Name: Alconox

12.1 Toxicity:

Sodium Alkylbenzene Sulfonate: Fish, LC50 1.67 mg/l, 96 hours.
Sodium Alkylbenzene Sulfonate: Aquatic invertebrates, EC50 Daphnia 2.4 mg/l, 48 hours.
Sodium Alkylbenzene Sulfonate: Aquatic Plants, EC50 Algae 29 mg/l, 96 hours.
Tetrasodium Pyrophosphate: Fish, LC50 - other fish - 1,380 mg/l - 96 h.
Tetrasodium Pyrophosphate: Aquatic invertebrates, EC50 - Daphnia magna (Water flea) - 391 mg/l - 48 h.

12.2 Persistence and degradability: No additional information.

12.3 Bioaccumulative potential: No additional information.

12.4 Mobility in soil: No additional information.

General notes: No additional information.

12.5 Results of PBT and vPvB assessment:

PBT: No additional information.

vPvB: No additional information.

12.6 Other adverse effects: No additional information.

13 Disposal considerations

13.1 Waste treatment methods (consult local, regional and national authorities for proper disposal)

Relevant Information:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities. (US 40CFR262.11).

14 Transport information

14.1 UN Number: ADR, ADN, DOT, IMDG, IATA		None
14.2 UN Proper shipping name: ADR, ADN, DOT, IMDG, IATA		None
14.3 Transport hazard classes: ADR, ADN, DOT, IMDG, IATA	**Class:** **Label:** **LTD. QTY:**	None None None

US DOT
Limited Quantity Exception: None

Bulk:
RQ (if applicable): None
Proper shipping Name: None
Hazard Class: None
Packing Group: None
Marine Pollutant (if applicable): No additional information.

Non Bulk:
RQ (if applicable): None
Proper shipping Name: None
Hazard Class: None
Packing Group: None
Marine Pollutant (if applicable): No additional information.

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 12.08.2015 **Revision** : 12.10.2015

Trade Name: Alconox

	Comments: None	**Comments:** None
14.4	**Packing group:** ADR, ADN, DOT, IMDG, IATA	None
14.5	**Environmental hazards** :	None
14.6	**Special precautions for user:**	None
	Danger code (Kemler):	None
	EMS number:	None
	Segregation groups:	None
14.7	**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.	
14.8	**Transport/Additional information:**	
	Transport category:	None
	Tunnel restriction code:	None
	UN "Model Regulation":	None

15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.

North American

SARA

Section 313 (specific toxic chemical listings): None of the ingredients are listed.
Section 302 (extremely hazardous substances): None of the ingredients are listed.

CERCLA (Comprehensive Environmental Response, Clean up and Liability Act) Reportable Spill Quantity: None of the ingredients are listed.

TSCA (Toxic Substances Control Act):

Inventory: All ingredients are listed.
Rules and Orders: Not applicable.

Proposition 65 (California):

Chemicals known to cause cancer: None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females: None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males: None of the ingredients are listed.

Chemicals known to cause developmental toxicity: None of the ingredients are listed.

Canadian

Canadian Domestic Substances List (DSL):
All ingredients are listed.

EU

REACH Article 57 (SVHC): None of the ingredients are listed.

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 12.08.2015 **Revision** : 12.10.2015

Trade Name: Alconox

Germany MAK: Not classified.

Asia Pacific

Australia

Australian Inventory of Chemical Substances (AICS): All ingredients are listed.

China

Inventory of Existing Chemical Substances in China (IECSC): All ingredients are listed.

Japan

Inventory of Existing and New Chemical Substances (ENCS): All ingredients are listed.

Korea

Existing Chemicals List (ECL): All ingredients are listed.

New Zealand

New Zealand Inventory of Chemicals (NZOIC): All ingredients are listed.

Philippines

Philippine Inventory of Chemicals and Chemical Substances (PICCS): All ingredients are listed.

Taiwan

Taiwan Chemical Substance Inventory (TSCI): All ingredients are listed.

16 Other information

Abbreviations and Acronyms: None

Summary of Phrases

Hazard statements:

H315 Causes skin irritation.
H319 Causes serious eye irritation

Precautionary statements:

P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 If on skin: Wash with soap and water.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P321 Specific treatment (see supplemental first aid instructions on this label).
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
P501 Dispose of contents and container as instructed in Section 13.

Manufacturer Statement:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

NFPA: 1-0-0

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 12.08.2015 **Revision** : 12.10.2015

Trade Name: Alconox

HMIS: 1-0-0

APPENDIX B

INSTRUMENT CALIBRATION LOGS

COCCIARDI AND ASSOCIATES, INC.

PROJECT NAME: _____
PROJECT NUMBER: _____
DATE: _____

INSTRUMENT CALIBRATION LOG

DATE	INSTRUMENT	CHALLENGE AGENT	KNOWN CONCENTRATION	READING	ADJUSTED?	SIGNATURE	DATE
					YES NO		
					YES NO		
					YES NO		
					YES NO		
					YES NO		
					YES NO		
					YES NO		
					YES NO		
					YES NO		
					YES NO		

PAGE _____

COCCIARDI AND ASSOCIATES, INC.

PROJECT NAME: _____
PROJECT NUMBER: _____
DATE OF SAMPLING: _____

RESULTS OF ONSITE MONITORING

TIME	MONITORING DEVICE	CALIBRATION	O_2/CGI		RADIATION MONITOR READING	OTHER	LOCATION	PURPOSE	INITIALS
			% LEL	% O_2	mR/hr				

COCCIARDI AND ASSOCIATES, INC.

PROJECT NAME: _____
PROJECT NUMBER: _____
DATE: _____

ONSITE SAMPLE COLLECTION LOG

SAMPLE NUMBER	SAMPLE TYPE	TIME (START/STOP)	TOTAL TIME (MINUTES)	PRE/POST CALIBRATION	AVERAGE CALIBRATION	SAMPLE VOLUME (LITERS)

APPENDIX C

PERMITS C1: HOT WORK PERMIT

PERMITS C2: CONFIDED SPACE ENTRY PERMIT

HOT WORK PERMIT

Seek an alternative/safer method if possible!

Before initiating hot work, ensure precautions are in place as required by NFPA 51B and ANSI Z49.1.
Make sure an appropriate fire extinguisher is readily available.

This Hot Work Permit is required for any operation involving open flame or producing heat and/or sparks. This work includes, but is not limited to, welding, brazing, cutting, grinding, soldering, thawing pipe, torch-applied roofing, or chemical welding.

Date	Hot work by ❑ employee ❑ contractor
Location/Building and floor _____	Name (print) and signature of person doing hot work
Work to be done _____	I verify that the above location has been examined, the precautions marked on the checklist below have been taken, and permission is granted for this work.
Time started _____ Time completed _____	Name (print) and signature of permit-authorizing individual (PAI)
THIS PERMIT IS GOOD FOR ONE DAY ONLY	

❑ Available sprinklers, hose streams, and extinguishers are in service and operable.

❑ Hot work equipment is in good working condition in accordance with manufacturer's specifications.

❑ Special permission obtained to conduct hot work on metal vessels or piping lined with rubber or plastic.

Requirements within 35 ft (11 m) of hot work

- ❑ Flammable liquid, dust, lint, and oily deposits removed.
- ❑ Explosive atmosphere in area eliminated.
- ❑ Floors swept clean and trash removed.
- ❑ Combustible floors wet down or covered with damp sand or fire-resistive/noncombustible materials or equivalent.
- ❑ Personnel protected from electrical shock when floors are wet.
- ❑ Other combustible storage material removed or covered with listed or approved materials (welding pads, blankets, or curtains; fire-resistive tarpaulins), metal shields, or noncombustible materials.
- ❑ All wall and floor openings covered.
- ❑ Ducts and conveyors that might carry sparks to distant combustible material covered, protected, or shut down.

Requirements for hot work on walls, ceilings, or roofs

- ❑ Construction is noncombustible and without combustible coverings or insulation.
- ❑ Combustible material on other side of walls, ceilings, or roofs is moved away.

Requirements for hot work on enclosed equipment

- ❑ Enclosed equipment is cleaned of all combustibles.
- ❑ Containers are purged of flammable liquid/vapor.
- ❑ Pressurized vessels, piping, and equipment removed from service, isolated, and vented.

Requirements for hot work fire watch and fire monitoring

- ❑ Fire watch is provided during and for a minimum of 30 min. after hot work, including any break activity.
- ❑ Fire watch is provided with suitable extinguishers and, where practical, a charged small hose.
- ❑ Fire watch is trained in use of equipment and in sounding alarm.
- ❑ Fire watch can be required in adjoining areas, above and below.
- ❑ Yes ❑ No Per the PAI/fire watch, monitoring of hot work area has been extended beyond the 30 min.

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Safety • Environmental Health • Emergency Preparedness
Consulting and Training

Confined Space Entry Permit

Date: _____ Permit Number _____

Host Employer (Property Owner) : _____
Controlling Employer (Prime Contractor): _____
Entry Employer(s): _____

Purpose:
☐ PRCS Entry
Type of PRCS (i.e. manhole, vats, silo): _____
☐ PRCS Reclassification and Entry
Hazards Eliminated/Isolated Using: _____
☐ CS Entry/ES Entry
☐ Alternative Entry
☐ Other: _____

Project Description:
Site Location/Description:
_____
Task(s) Description Inside Space
_____
Types of (potential) Hazards Associated with Space
_____
Duration of Permit (Not exceeding 24 hours) _____

Title	Name	Signature	Date Certified
Supervisor			
Attendant(s)			
Entrants(s)			

Rescue Information:
Rescue Service Provider:
☐ Self-provided ☐ External Rescue Service Provider _____
Confirmation of Services (Date/Time): _____
Emergency Contact Number (s): _____
Other Information: _____
_____

Rescue Equipment	Personal Protective Equipment	Confined Space Equipment	Safety Procedures (Prior to Entry)
☐ Retrieval Line/Hoist ☐ Full Body Harness ☐ Winch/Tripod ☐ Backboard ☐ Respirator(s): ☐ SCBA ☐ Escape Pack ☐ AED ☐ First Aid Kit	☐ Hard Hat ☐ Safety Glasses/Goggles ☐ Steel Toed Boots ☐ Respirator Type (s):_____ _____ ☐ Hearing Protection ☐ Body Protection ☐ Hand Protection	☐ Communication Equipment ☐ Ventilation Equipment ☐ Warning Signs ☐ Barricades ☐ Atmospheric Monitoring Meter ☐ Fire Extinguisher ☐ GFCI in Wet Environments ☐ Non-Sparking Tools ☐ Intrinsically Safe Equipment	☐ Lock Out/Tag Out Energized Equipment ☐ Briefing (EAP) ☐ Barricades ☐ Ventilate Space ☐ Lines Broken-Capped-Blanked ☐ Purge- Flush and Vent ☐ Contractors Notified in the Area ☐ Hot Work Permit

Air Monitoring

☐ **Provisions taken to continuously monitor the atmosphere inside the confined space.**

Test to be Taken	Limit	Test results										
		Pre-Entry	1st Test	2nd Test	3rd Test	4th Test	5th Test	6th Test	7th Test	8th Test	9th Test	10th Test
% Oxygen (O_2)	19.5-23.5%											
% of LEL Flammable Concentrations	<10%											
Carbon Monoxide	<35ppm											
Hydrogen Sulfide (H_2S)	<10 ppm											
Other:_____	TBD											
Time of Readings												
Initials of Tester												

Equipment Name Used:	**Cal Date of Each Equipment:**	☐ **Engulfment Hazard**
1._____	1.____/____/_____	Type of Early Warning System:
2._____	2.____/____/_____	_____
3._____	3.____/____/_____	_____
4._____	4.____/____/_____	

Equipment Issues:_____
Incidents/Accidents:_____
Comments: _____

Certification

Authorize (Entry) Permit	Cancel Permit	Suspension of Permit (Construction ONLY)
Supervisor (sign): _____ Date:_____ Time: _____	Supervisor (sign): _____ Date:_____ Time: _____	Supervisor (Sign): _____ Date:_____ Time Suspended:_____ Reauthorized Time:_____

**NOTE: A copy of this permit will be on file at _____ for a one year period.

Reviewing Agent **Signature** **Date**

_____

APPENDIX D

DIRECTIONS TO HOSPITAL AND PHARMACY

I.) COMMUNITY MEDIAL CENTER: MULBERRY STREET, SCRANTON, PA
II.) CVS PHARMACY: SCRANTON, PA

Google Maps

1313 Meylert Ave, Scranton, PA 18509 to Geisinger Community Medical Center

Drive 2.7 miles, 11 min

Map data ©2016 Google 1000 ft

Scranton, PA 18509

Take Larch St, N Washington Ave and Myrtle St to Harrison Ave

8 min (2.0 mi)

1. Head northeast on Meylert Ave toward Glenn St

440 ft

2. Meylert Ave turns right and becomes Glenn St

0.3 mi

3. Turn right onto Sanderson Ave

495 ft

4. Turn left onto Larch St

0.4 mi

5. Turn right onto N Washington Ave

0.4 mi

6. Turn left onto Myrtle St

0.8 mi

7. Turn right onto Harrison Ave

2 min (0.5 mi)

8. Turn left onto Mulberry St
   Destination will be on the right

1 min (0.2 mi)

Geisinger Community Medical Center

1800 Mulberry Street, Scranton, PA 18510

Google Maps

1313 Meylert Ave, Scranton, PA 18509 to 110 Green Ridge St, Scranton, PA 18509

Drive 0.5 mile, 2 min

1313 Meylert Ave

Scranton, PA 18509

1. Head southwest on Meylert Ave toward Nay Aug Ave

66 ft

2. Turn right at Nay Aug Ave

259 ft

3. Continue onto Albright Ave

0.4 mi

4. Turn left onto Green Ridge St

Destination will be on the left

0.1 mi

110 Green Ridge St

Scranton, PA 18509

These directions are for planning purposes only. You may find that construction projects, traffic, weather, or other events may cause conditions to differ from the map results, and you should plan your route accordingly. You must obey all signs or notices regarding your route.

APPENDIX E

WORK PROCEDURES AND JOB SAFETY ANALYSIS:

RESERVED

COCCIARDI and Associates, Inc.

Safety • Environmental Health • Emergency Preparedness
Consulting and Training

Attachment III

Sampling Mapping and Results

Provided To:

United States Environmental Protection Agency

Notification and Certification in compliance with 40 CFR 761.61(a)(3)

Cocciardi Project No. 150794

COCCIARDI and Associates, Inc.

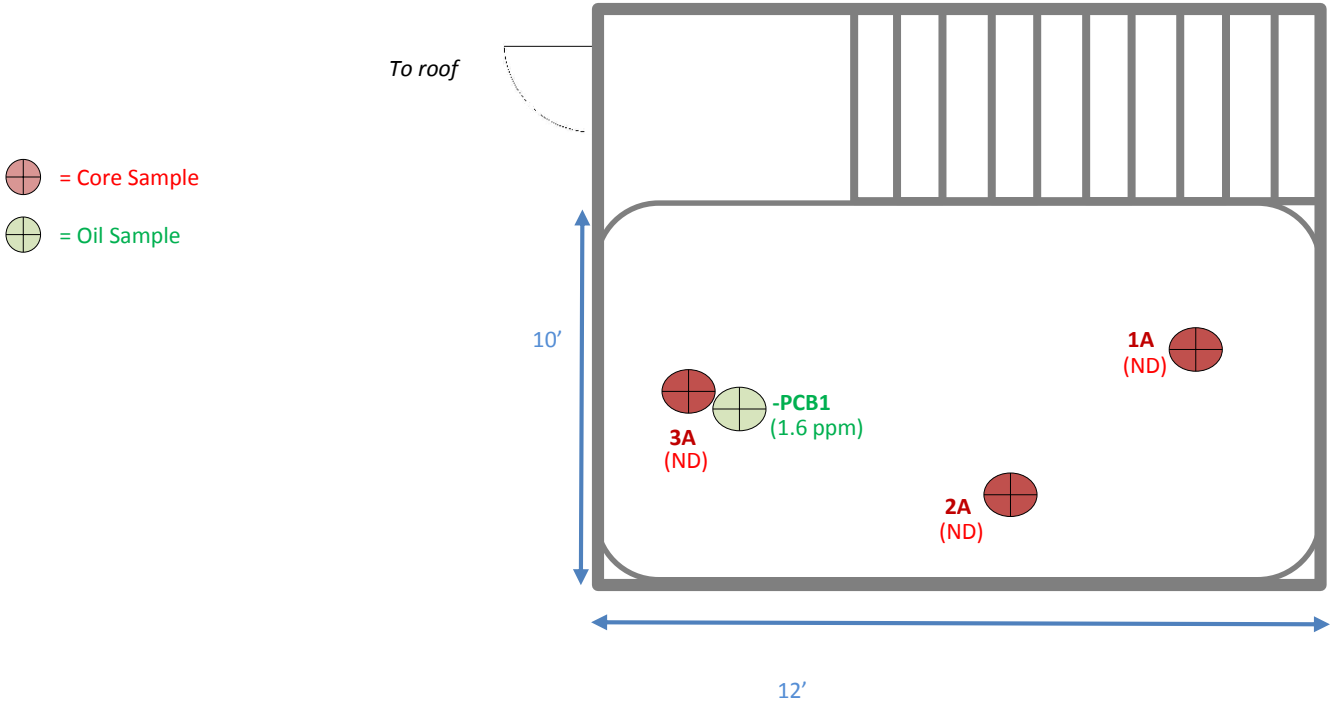
Safety • Environmental Health • Emergency Preparedness
Consulting and Training

Scranton Lace Redevelopment Project: Environmental Remediation

BUILDING 30

CLOCKTOWER

BUILDING 2



Not to Scale

COCCIARDI and Associates, Inc.

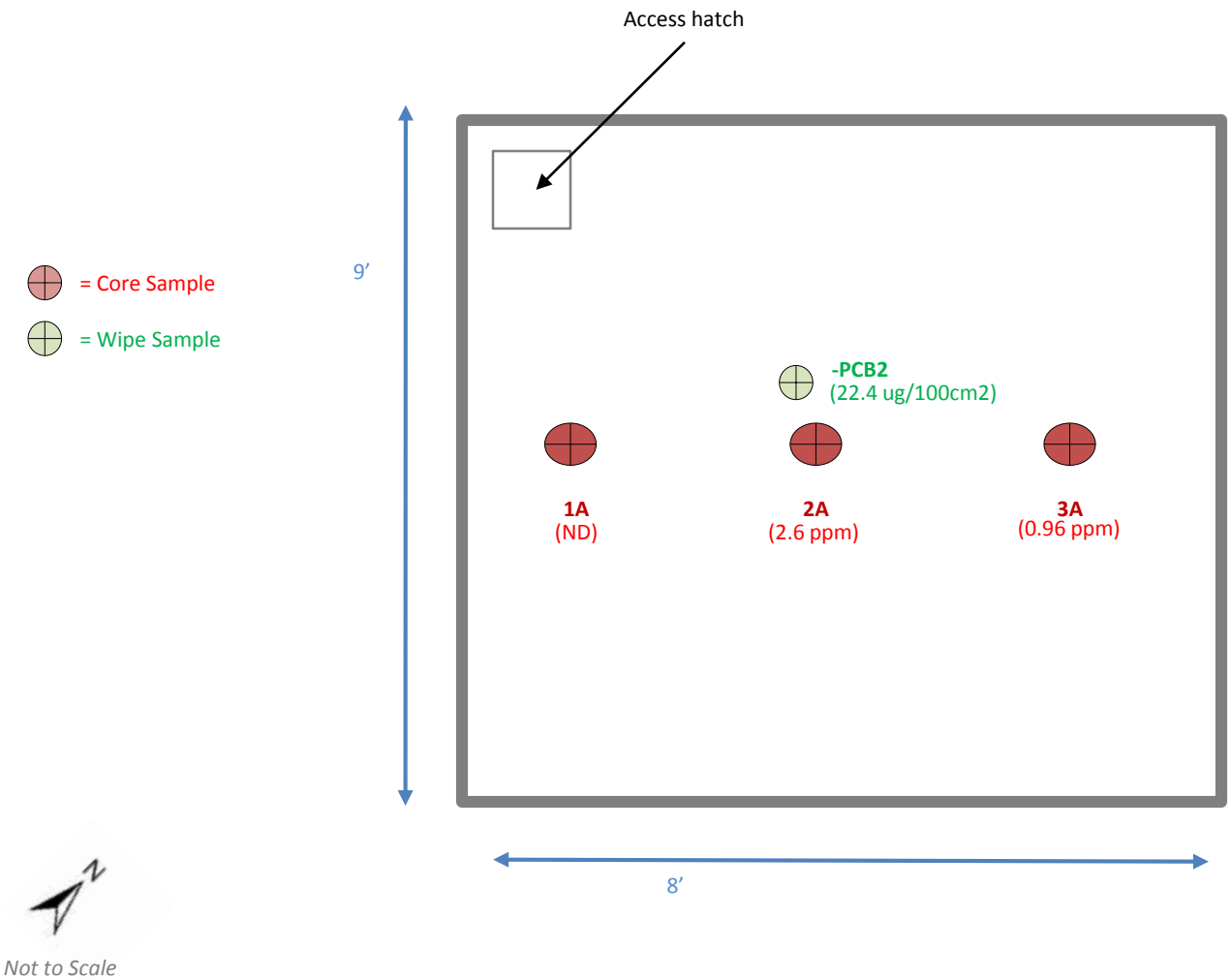
Scranton Lace Redevelopment Project- Environmental Remediation
CAI No. 150794

Building 30- 4th Floor Rooftop Access Area: PCB Sample Locations and Results (ppm)

COCCIARDI and Associates, Inc.

Scranton Lace Redevelopment Project- Environmental Remediation
CAI No. 150794

Building 30- 4th Floor Rooftop Access Area



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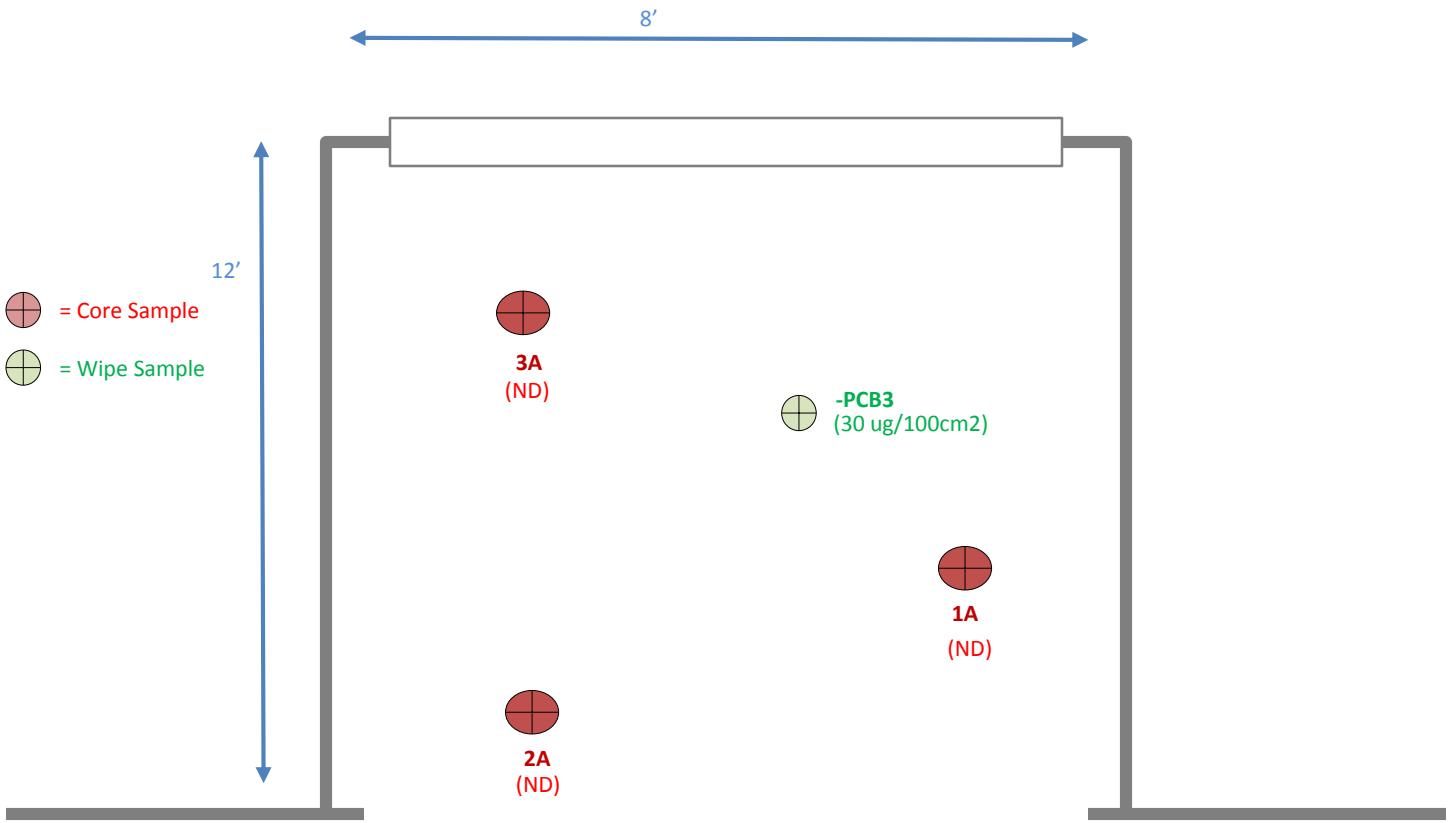
Scranton Lace Redevelopment Project- Environmental Remediation
CAI No. 150794

Clocktower: PCB Sample Locations and Results (ppm or ug/100 cm^2)

COCCIARDI and Associates, Inc.

Scranton Lace Redevelopment Project- Environmental Remediation
CAI No. 150794

Clocktower



Building 2

Not to Scale

COCCIARDI and Associates, Inc.

Scranton Lace Redevelopment Project- Environmental Remediation
CAI No. 150794

Building 2: PCB Sample Locations and Results (ppm or ug/100 cm^2)

Building 2

Client:	Scranton Lace Affiliates	**Date(s):**	8/11/16
Project/Site:	Scranton Lace	**Personnel:**	MB, JD, CY
Project No.:	150794		

Building	Sample ID	Substrate	Depth	Type	Comments	Result
Clocktower	1-CT-1A	Concrete	0-0.5”	PRE	Staining (light-moderate)	ND
Clocktower	1-CT-2A	Concrete	0-0.5”	PRE	Staining (heavy)	2.6 ppm
Clocktower	1-CT-3A	Concrete	0-0.5”	PRE	Staining (light)	0.96 ppm
2	1-2-1A	Concrete	0-0.5”	PRE	Staining (light-moderate)	ND
2	1-2-2A	Concrete	0-0.5”	PRE	Staining (light-moderate)	ND
2	1-2-3A	Concrete	0-0.5”	PRE	Staining (light-moderate)	ND
30	1-30-1A	Concrete	0-0.5”	PRE	Staining (heavy)	ND
30	1-30-2A	Concrete	0-0.5”	PRE	Staining (heavy)	ND
30	1-30-3A	Concrete	0-0.5”	PRE	Staining (heavy)	ND

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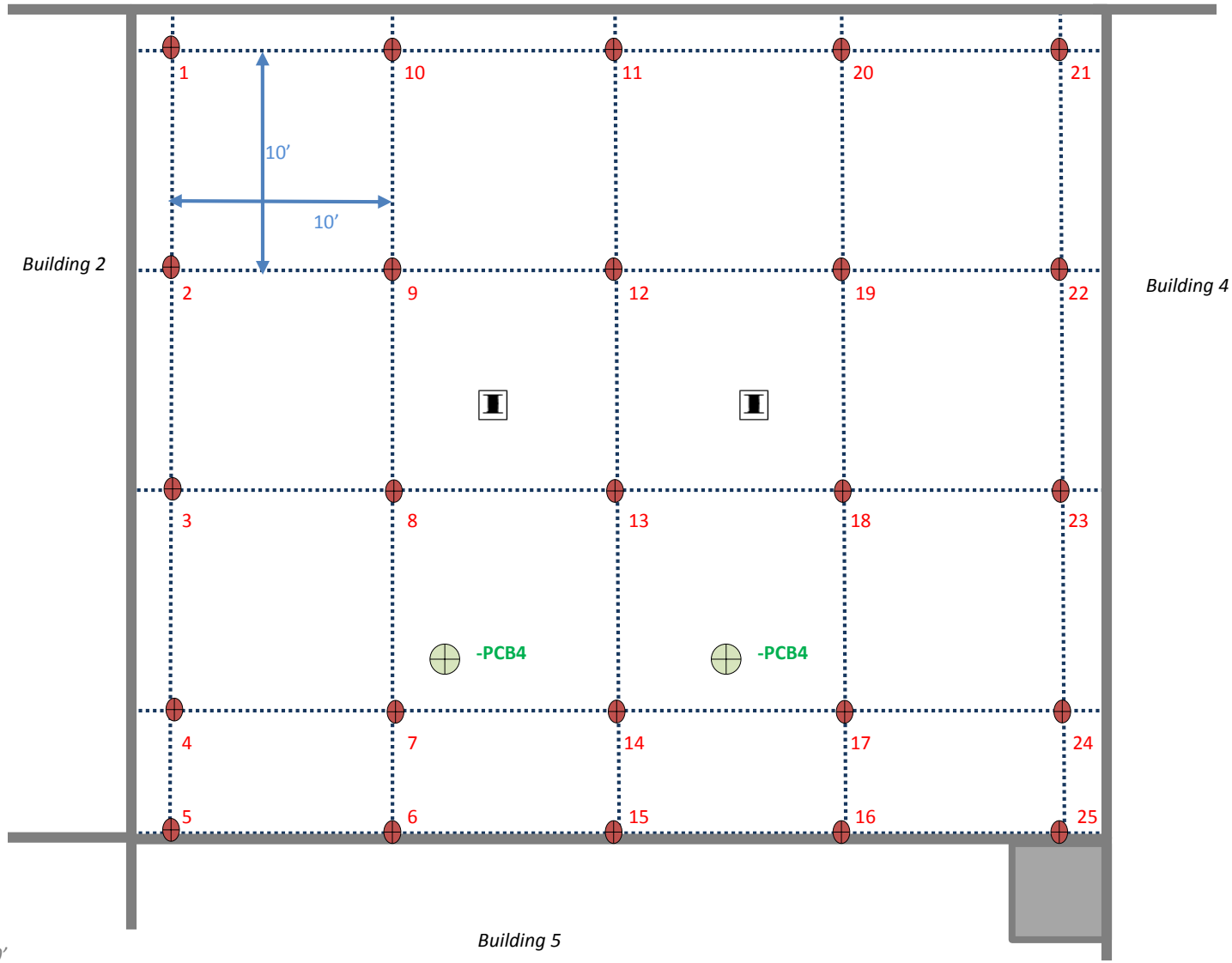
Scranton Lace Redevelopment Project: Environmental Remediation

BUILDING 3



= Core Sample

= Wipe Sample

Not to Scale
Approximate Scale, each grid = 10'x10'

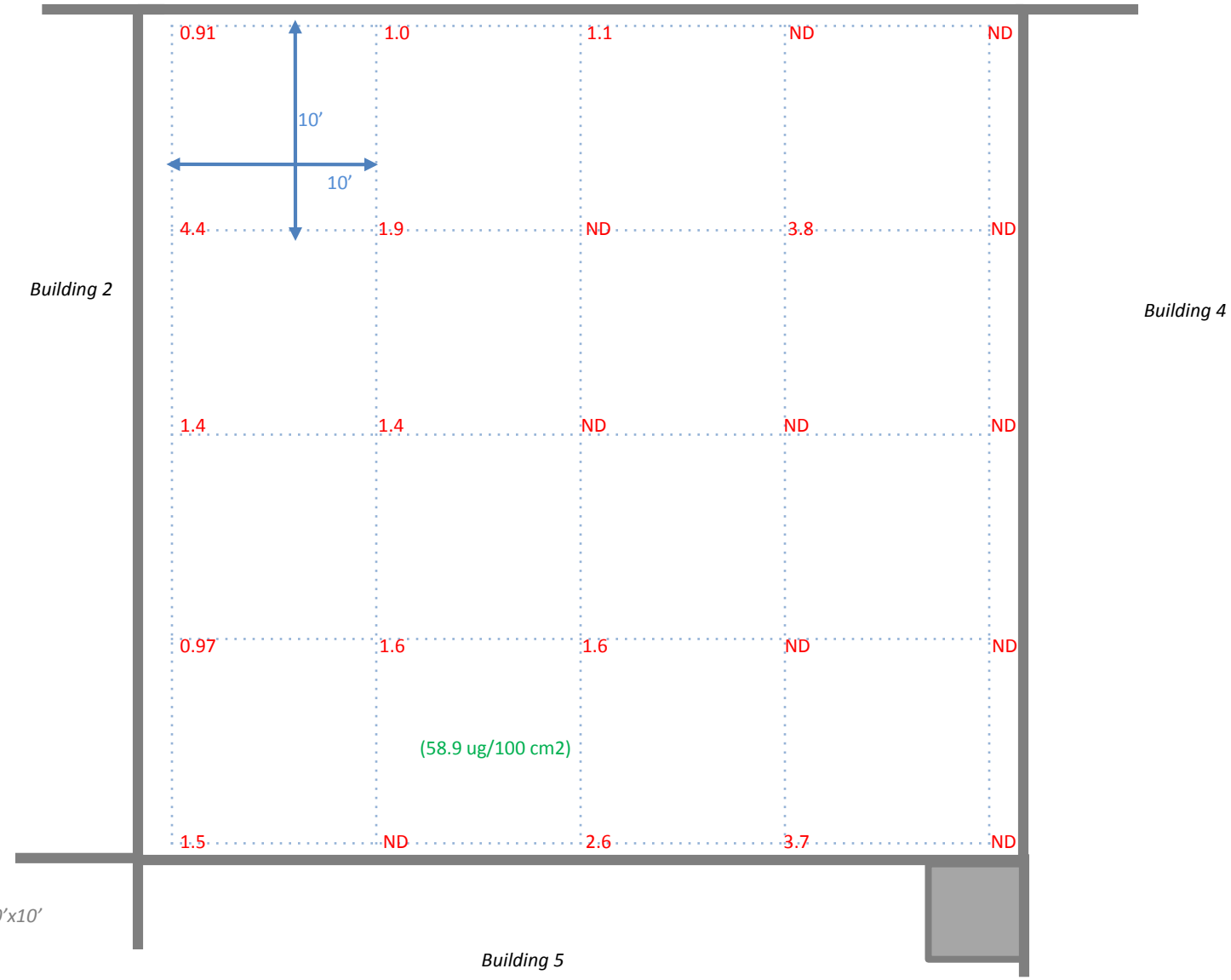
COCCIARDI and Associates, Inc.

Scranton Lace Redevelopment Project- Environmental Remediation
CAI No. 150794

Building 3- PCB Sample Locations

= Core Sample

= Wipe Sample



Not to Scale
Approximate Scale, each grid = 10'x10'

COCCIARDI and Associates, Inc.

Scranton Lace Redevelopment Project- Environmental Remediation
CAI No. 150794

Building 3: PCB Sample Results (ppm or ug/100 cm^2)

COCCIARDI and Associates, Inc.	Scranton Lace Redevelopment Project- Environmental Remediation CAI No. 150794	**Building 3: Machine Shop Floor**

COCCIARDI and Associates, Inc.

Client: Scranton Lace Affiliates
Project/Site: Scranton Lace
Project No.: 150794

Date(s): 7/7/16
Personnel: DD, JN, MB, TC

Building	Sample ID	Substrate	Depth	Type	Comments	Result
3	1-3-1A	Wood	0-0.5”	Pre	T&G, Wood plank below	0.91 ppm
3	1-3-2A	Wood	0-0.5”	Pre	T&G, Wood plank below	4.4 ppm
3	1-3-3A	Wood	0-0.5”	Pre	T&G, Wood plank below	1.4 ppm
3	1-3-4A	Wood	0-0.5”	Pre	T&G, Wood plank below	.97 ppm
3	1-3-5A	Wood	0-0.5”	Pre	T&G, Wood plank below	1.5 ppm
3	1-3-6A	Concrete	0-0.5”	Pre	Concrete below	ND
3	1-3-7A	Concrete	0-0.5”	Pre	Concrete below	1.6 ppm
3	1-3-8A	Concrete	0-0.5”	Pre	Concrete below	1.4 ppm
3	1-3-9A	Concrete	0-0.5”	Pre	Concrete below	1.9 ppm
3	1-3-10A	Wood	0-0.5”	Pre	T&G, Wood plank below	1.0 ppm
3	1-3-11A	Wood	0-0.5”	Pre	T&G, Wood plank below	1.1 ppm
3	1-3-12A	Wood	0-0.5”	Pre	T&G, Wood plank below	ND
3	1-3-13A	Wood	0-0.5”	Pre	T&G, Wood plank below	ND
3	1-3-14A	Wood	0-0.5”	Pre	T&G, Wood plank below	1.6 ppm
3	1-3-15A	Concrete	0-0.5”	Pre	Concrete below	2.6 ppm
3	1-3-16A	Wood	0-0.5”	Pre	T&G, Wood plank below	3.7 ppm
3	1-3-17A	Concrete	0-0.5”	Pre	Concrete below	ND
3	1-3-18A	Concrete	0-0.5”	Pre	Concrete below	ND
3	1-3-19A	Concrete	0-0.5”	Pre	Concrete below	3.8 ppm
3	1-3-20A	Wood	0-0.5”	Pre	T&G, Wood plank below	ND
3	1-3-21A	Wood	0-0.5”	Pre	T&G, Wood plank below	ND
3	1-3-22A	Concrete	0-0.5”	Pre	Concrete below	ND
3	1-3-23A	Concrete	0-0.5”	Pre	Concrete below	ND
3	1-3-24A	Concrete	0-0.5”	Pre	Concrete below	ND
3	1-3-25A	Concrete	0-0.5”	Pre	Concrete below	ND

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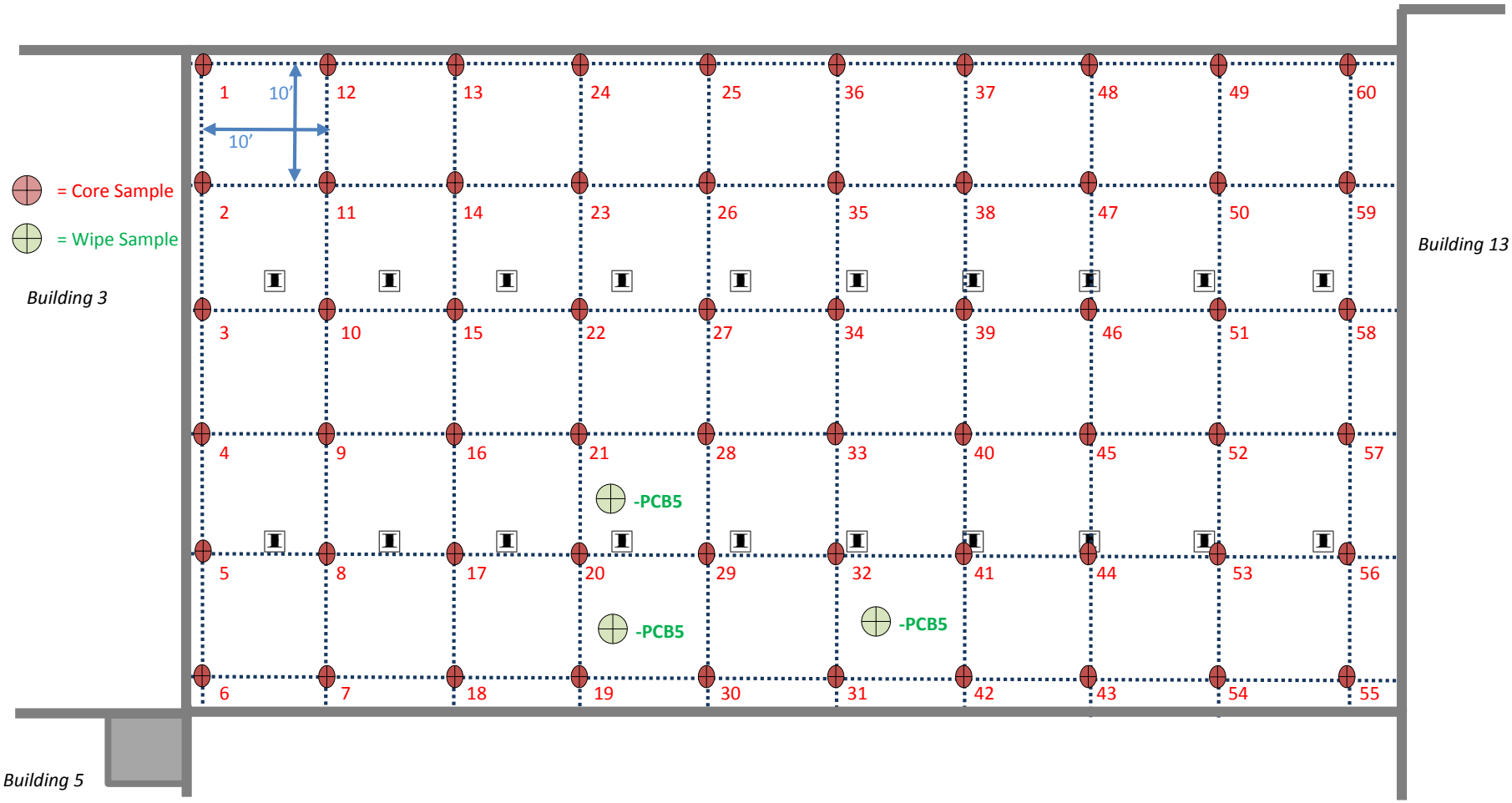
Scranton Lace Redevelopment Project: Environmental Remediation

BUILDING 4

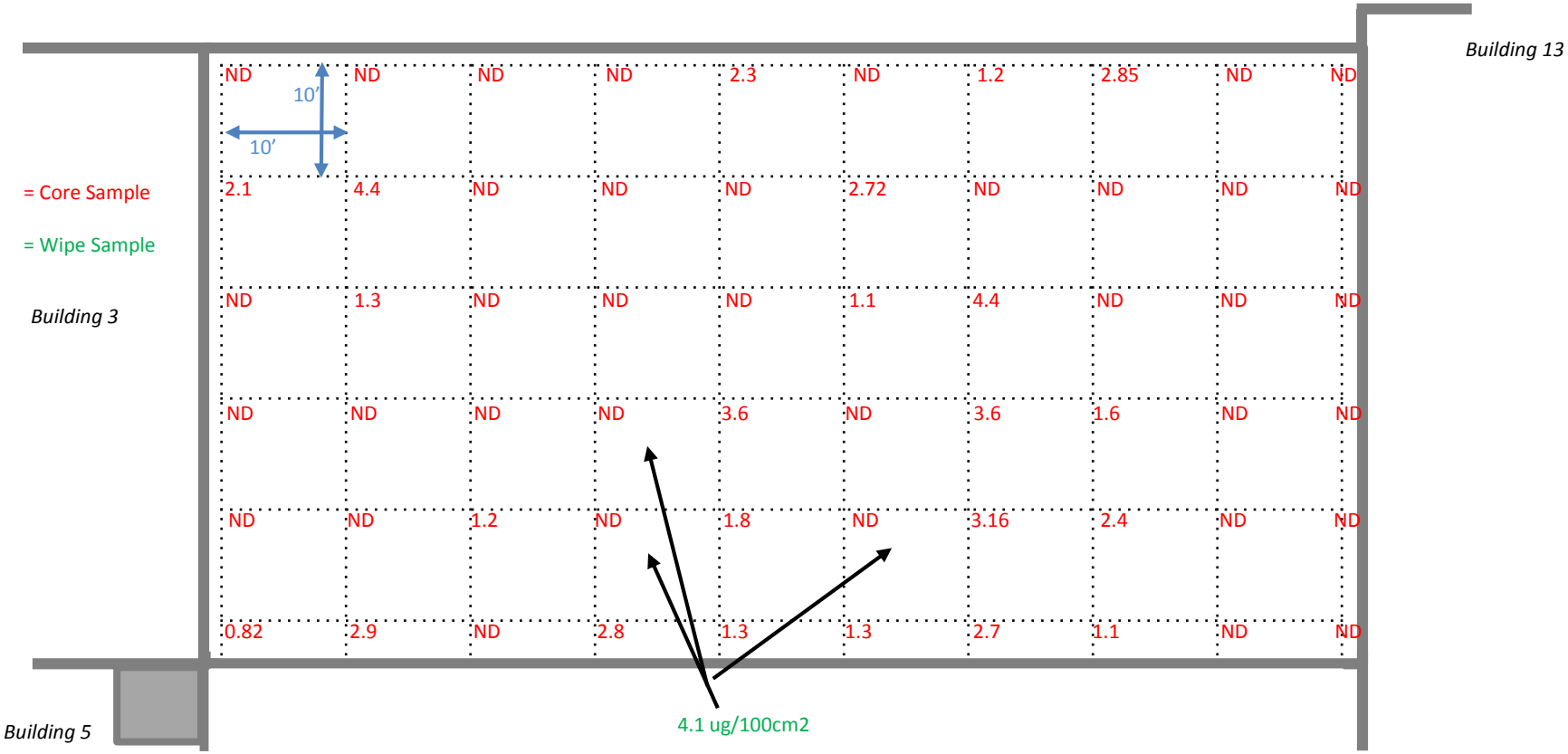


COCCIARDI and Associates, Inc.

Scranton Lace Redevelopment Project- Environmental Remediation
CAI No. 150794

Building 4- PCB Sample Locations

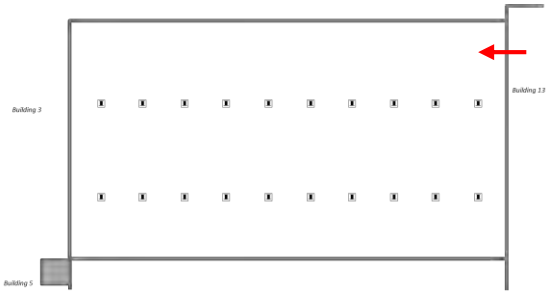
Not to Scale
Approximate Scale, each grid = 10'x10'

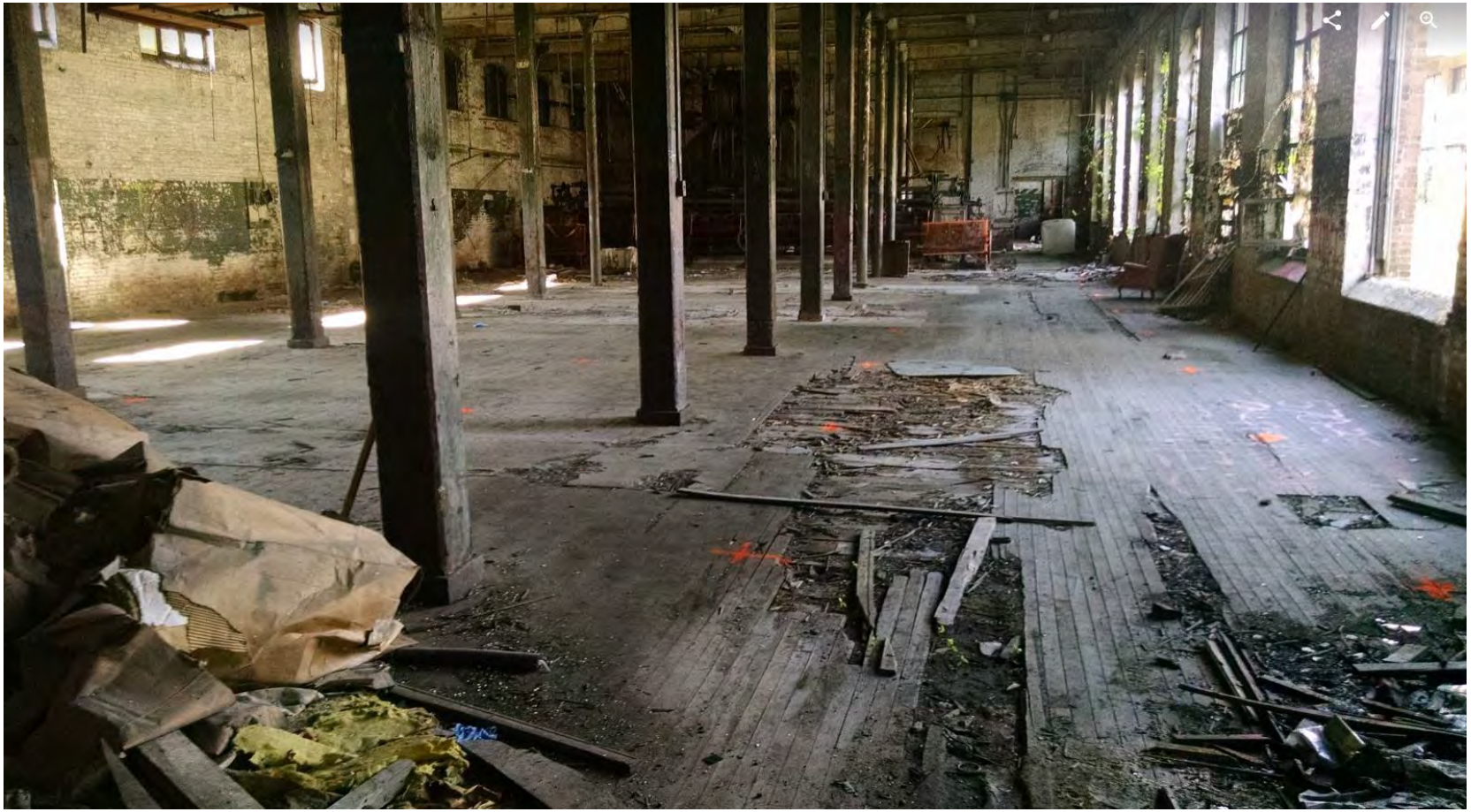


COCCIARDI and Associates, Inc.

Scranton Lace Redevelopment Project- Environmental Remediation
CAI No. 150794

Building 4- PCB Sample Results (ppm or ug/100 cm^2)


Building 3
Building 13
Building 5



COCCIARDI and Associates, Inc.

Client: Scranton Lace Affiliates
Project/Site: Scranton Lace
Project No.: 150794

Date(s): 7/7/16
Personnel: DD, JN, MB, TC

Building	Sample ID	Substrate	Depth	Type	Comments	Result
4	1-4-1A	Wood	0-0.5”	Pre	T&G, Wood plank below	ND
4	1-4-2A	Concrete	0-0.5”	Pre	Concrete pad <4” thick	2.1 ppm
4	1-4-3A	Wood	0-0.5”	Pre	T&G, Wood plank below	ND
4	1-4-4A	Wood	0-0.5”	Pre	T&G, Wood plank below	ND
4	1-4-5A	Wood	0-0.5”	Pre	T&G, Wood plank below	ND
4	1-4-6A	Wood	0-0.5”	Pre	T&G, Wood plank below	0.82 ppm
4	1-4-7A	Concrete	0-0.5”	Pre	Concrete pad <4” thick	2.9 ppm
4	1-4-8A	Concrete	0-0.5”	Pre	Concrete pad <4” thick	ND
4	1-4-9A	Concrete	0-0.5”	Pre	Concrete pad <4” thick	ND
4	1-4-10A	Concrete	0-0.5”	Pre	Concrete pad <4” thick	1.3 ppm
4	1-4-11A	Concrete	0-0.5”	Pre	Concrete pad <4” thick	4.4 ppm
4	1-4-12A	Wood	0-0.5”	Pre	T&G, Wood plank below	ND
4	1-4-13A	Wood	0-0.5”	Pre	T&G, Wood plank below	ND
4	1-4-14A	Wood	0-0.5”	Pre	T&G, Wood plank below	ND
4	1-4-15A	Wood	0-0.5”	Pre	T&G, Wood plank below	ND
4	1-4-16A	Wood	0-0.5”	Pre	T&G, Wood plank below	ND
4	1-4-17A	Wood	0-0.5”	Pre	T&G, Wood plank below	1.2 ppm
4	1-4-18A	Wood	0-0.5”	Pre	T&G, Wood plank below	ND
4	1-4-19A	Wood	0-0.5”	Pre	T&G, Wood plank below	2.8 ppm
4	1-4-20A	Concrete	0-0.5”	Pre	Concrete pad <4” thick	ND
4	1-4-21A	Concrete	0-0.5”	Pre	Concrete pad <4” thick	ND
4	1-4-22A	Concrete	0-0.5”	Pre	Concrete pad <4” thick	ND
4	1-4-23A	Concrete	0-0.5”	Pre	Concrete pad <4” thick	ND
4	1-4-24A	Wood	0-0.5”	Pre	T&G, Wood plank below	ND
4	1-4-25A	Wood	0-0.5”	Pre	T&G, Wood plank below	2.3 ppm
4	1-4-26A	Wood	0-0.5”	Pre	T&G, Wood plank below	ND
4	1-4-27A	Wood	0-0.5”	Pre	T&G, Wood plank below	ND
4	1-4-28A	Wood	0-0.5”	Pre	T&G, Wood plank below	3.6 ppm

COCCIARDI and Associates, Inc.

Client: Scranton Lace Affiliates
Project/Site: Scranton Lace
Project No.: 150794

Date(s): 7/7/16
Personnel: DD, JN, MB, TC

Building	Sample ID	Substrate	Depth	Type	Comments	Result
4	1-4-29A	Wood	0-0.5”	Pre	T&G, Wood plank below	1.8 ppm
4	1-4-30A	Wood	0-0.5”	Pre	T&G, Wood plank below	1.3 ppm
4	1-4-31A	Wood	0-0.5”	Pre	T&G, Wood plank below	1.3 ppm
4	1-4-32A	Wood	0-0.5”	Pre	T&G, Wood plank below	ND
4	1-4-33A	Wood	0-0.5”	Pre	T&G, Wood plank below	ND
4	1-4-34A	Wood	0-0.5”	Pre	T&G, Wood plank below	1.1 ppm
4	1-4-35A	Wood	0-0.5”	Pre	T&G, Wood plank below	2.72 ppm
4	1-4-36A	Wood	0-0.5”	Pre	T&G, Wood plank below	ND
4	1-4-37A	Wood	0-0.5”	Pre	T&G, Wood plank below	1.2 ppm
4	1-4-38A	Wood	0-0.5”	Pre	T&G, Wood plank below	ND
4	1-4-39A	Wood	0-0.5”	Pre	T&G, Wood plank below	4.4 ppm
4	1-4-40A	Wood	0-0.5”	Pre	T&G, Wood plank below	3.6 ppm
4	1-4-41A	Wood	0-0.5”	Pre	T&G, Wood plank below	3.16 ppm
4	1-4-42A	Wood	0-0.5”	Pre	T&G, Wood plank below	2.7 ppm
4	1-4-43A	Wood	0-0.5”	Pre	T&G, Wood plank below	1.1 ppm
4	1-4-44A	Wood	0-0.5”	Pre	T&G, Wood plank below	2.4 ppm
4	1-4-45A	Wood	0-0.5”	Pre	T&G, Wood plank below	1.6 ppm
4	1-4-46A	Wood	0-0.5”	Pre	T&G, Wood plank below	ND
4	1-4-47A	Wood	0-0.5”	Pre	T&G, Wood plank below	ND
4	1-4-48A	Wood	0-0.5”	Pre	T&G, Wood plank below	2.85 ppm
4	1-4-49A	Wood	0-0.5”	Pre	T&G, Wood plank below	ND
4	1-4-50A	Wood	0-0.5”	Pre	T&G, Wood plank below	ND
4	1-4-51A	Wood	0-0.5”	Pre	T&G, Wood plank below	ND
4	1-4-52A	Wood	0-0.5”	Pre	T&G, Wood plank below	ND
4	1-4-53A	Wood	0-0.5”	Pre	T&G, Wood plank below	ND
4	1-4-54A	Wood	0-0.5”	Pre	T&G, Wood plank below	ND
4	1-4-55A	Wood	0-0.5”	Pre	T&G, Wood plank below	ND
4	1-4-56A	Wood	0-0.5”	Pre	T&G, Wood plank below	ND
4	1-4-57A	Wood	0-0.5”	Pre	T&G, Wood plank below	ND
4	1-4-58A	Wood	0-0.5”	Pre	T&G, Wood plank below	ND
4	1-4-59A	Wood	0-0.5”	Pre	T&G, Wood plank below	ND
4	1-4-60A	Wood	0-0.5”	Pre	T&G, Wood plank below	ND

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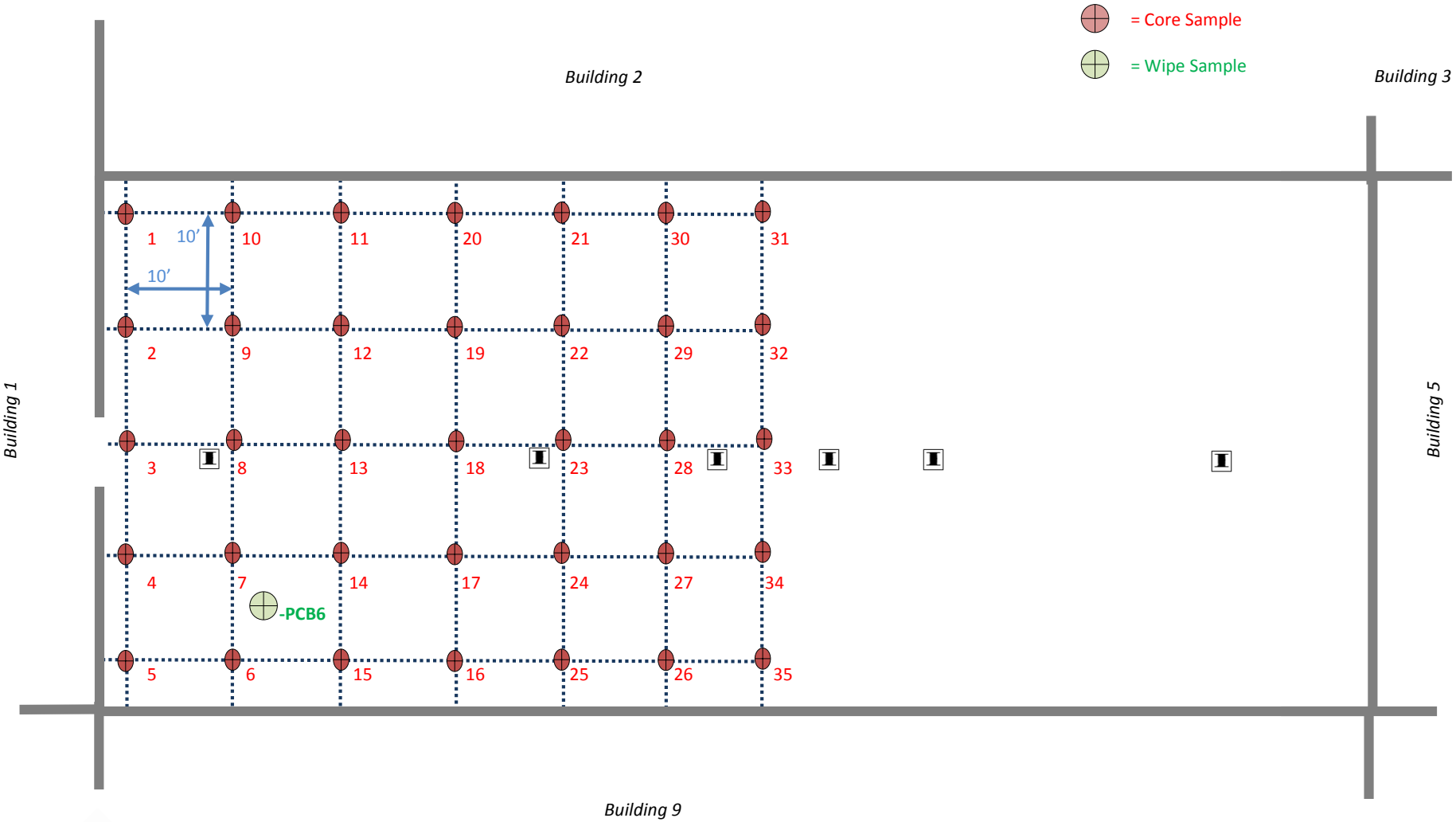
Scranton Lace Redevelopment Project: Environmental Remediation

BUILDING 6A

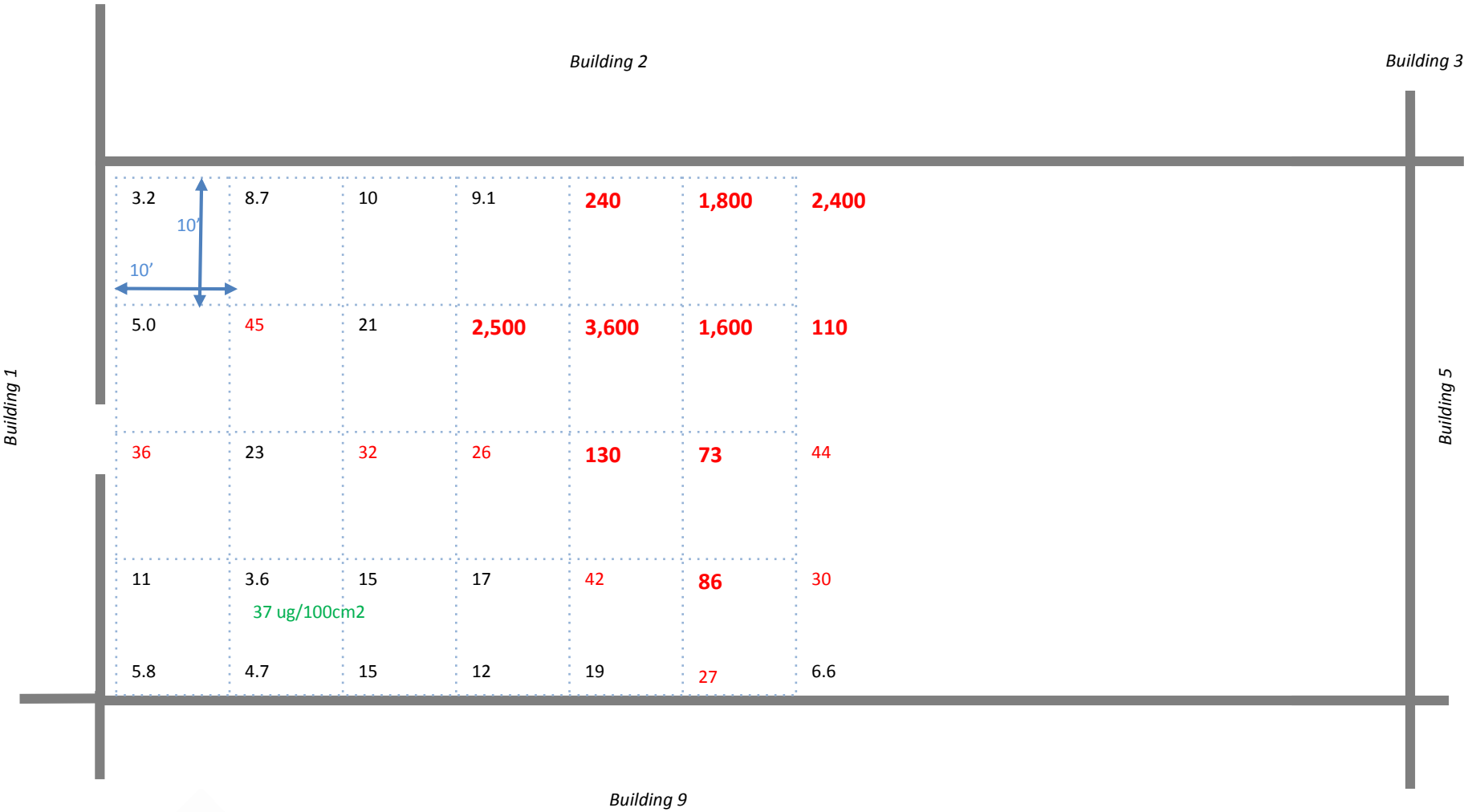


Not to Scale
Approximate Scale, each grid = 10'x10'

COCCIARDI and Associates, Inc.

Scranton Lace Redevelopment Project- Environmental Remediation
CAI No. 150794

Building 6A- PCB Sample Locations



Not to Scale
Approximate Scale, each grid = 10'x10'

COCCIARDI and Associates, Inc.

Scranton Lace Redevelopment Project- Environmental Remediation
CAI No. 150794

Building 6A- PCB Results (ppm or ug/100cm^2)

COCCIARDI and Associates, Inc.

Client: Scranton Lace Affiliates
Project/Site: Scranton Lace
Project No.: 150794

Date(s): 7/15/16; 7/26/16
Personnel: MB, DD, CY, JD

Building	Sample ID	Substrate	Depth	Type	Comments	Result
6A	1-6A-1A	Concrete	0-0.5”	PRE	Collected 7/15/16	3.2
6A	1-6A-2A	Concrete	0-0.5”	PRE	Collected 7/15/16	5.0
6A	1-6A-3A	Concrete	0-0.5”	PRE	Collected 7/15/16	36
6A	1-6A-4A	Concrete	0-0.5”	PRE	Collected 7/15/16	11
6A	1-6A-5A	Concrete	0-0.5”	PRE	Collected 7/15/16	5.8
6A	1-6A-6A	Concrete	0-0.5”	PRE	Collected 7/15/16	4.7
6A	1-6A-7A	Concrete	0-0.5”	PRE	Collected 7/15/16	3.6
6A	1-6A-8A	Concrete	0-0.5”	PRE	Collected 7/15/16	23
6A	1-6A-9A	Concrete	0-0.5”	PRE	Collected 7/26/16	45
6A	1-6A-10A	Concrete	0-0.5”	PRE	Collected 7/26/16	8.7
6A	1-6A-11A	Concrete	0-0.5”	PRE	Collected 7/26/16	10
6A	1-6A-12A	Concrete	0-0.5”	PRE	Collected 7/26/16	21
6A	1-6A-13A	Concrete	0-0.5”	PRE	Collected 7/15/16	32
6A	1-6A-14A	Concrete	0-0.5”	PRE	Collected 7/26/16	15
6A	1-6A-15A	Concrete	0-0.5”	PRE	Collected 7/26/16	15
6A	1-6A-16A	Concrete	0-0.5”	PRE	Collected 7/26/16	12
6A	1-6A-17A	Concrete	0-0.5”	PRE	Collected 7/26/16	17
6A	1-6A-18A	Concrete	0-0.5”	PRE	Collected 7/15/16	26
6A	1-6A-19A	Concrete	0-0.5”	PRE	Collected 7/26/16	2,500
6A	1-6A-20A	Concrete	0-0.5”	PRE	Collected 7/26/16	9.1
6A	1-6A-21A	Concrete	0-0.5”	PRE	Collected 7/26/16	240
6A	1-6A-22A	Concrete	0-0.5”	PRE	Collected 7/26/16	3,600
6A	1-6A-23A	Concrete	0-0.5”	PRE	Collected 7/15/16	130
6A	1-6A-24A	Concrete	0-0.5”	PRE	Collected 7/26/16	42
6A	1-6A-25A	Concrete	0-0.5”	PRE	Collected 7/26/16	19
6A	1-6A-26A	Concrete	0-0.5”	PRE	Collected 7/26/16	27
6A	1-6A-27A	Concrete	0-0.5”	PRE	Collected 7/26/16	86
6A	1-6A-28A	Concrete	0-0.5”	PRE	Collected 7/26/16	73

COCCIARDI and Associates, Inc.

Client: Scranton Lace Affiliates
Project/Site: Scranton Lace
Project No.: 150794

Date(s): 7/15/16; 7/26/16
Personnel: MB, DD, CY, JD

Building	Sample ID	Substrate	Depth	Type	Comments	Result
6A	1-6A-29A	Concrete	0-0.5”	PRE	Collected 7/26/16	1,600
6A	1-6A-30A	Concrete	0-0.5”	PRE	Collected 7/26/16	1,800
6A	1-6A-31A	Concrete	0-0.5”	PRE	Collected 7/26/16	2,400
6A	1-6A-32A	Concrete	0-0.5”	PRE	Collected 7/26/16	110
6A	1-6A-33A	Concrete	0-0.5”	PRE	Collected 7/26/16	44
6A	1-6A-34A	Concrete	0-0.5”	PRE	Collected 7/26/16	30
6A	1-6A-35A	Concrete	0-0.5”	PRE	Collected 7/26/16	6.6

COCCIARDI and Associates, Inc.

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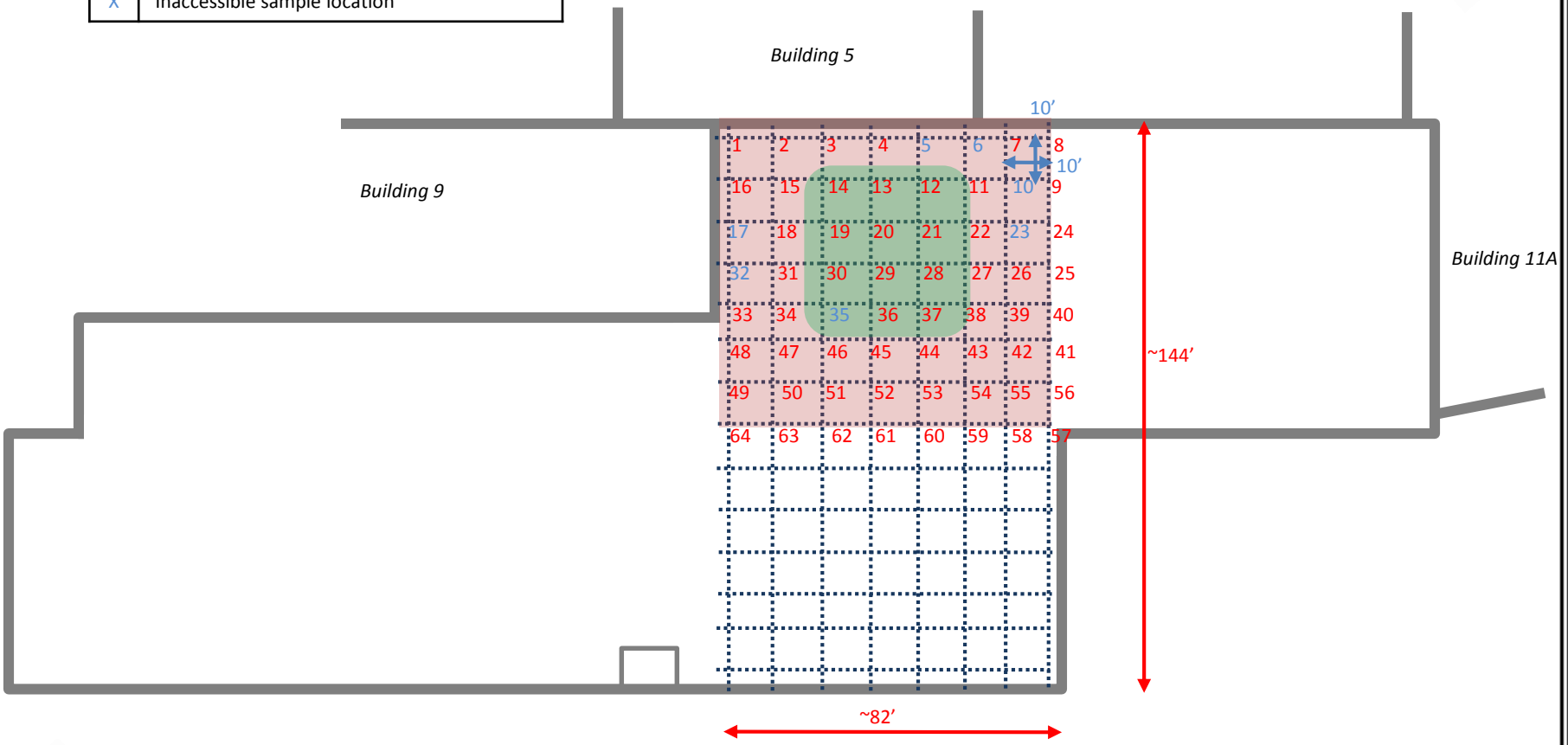
Scranton Lace Redevelopment Project: Environmental Remediation

BUILDING 8-10

	Assumed area of concern
	Proposed sample area delineation (8x8 grid)
X	Sample location
X	Inaccessible sample location

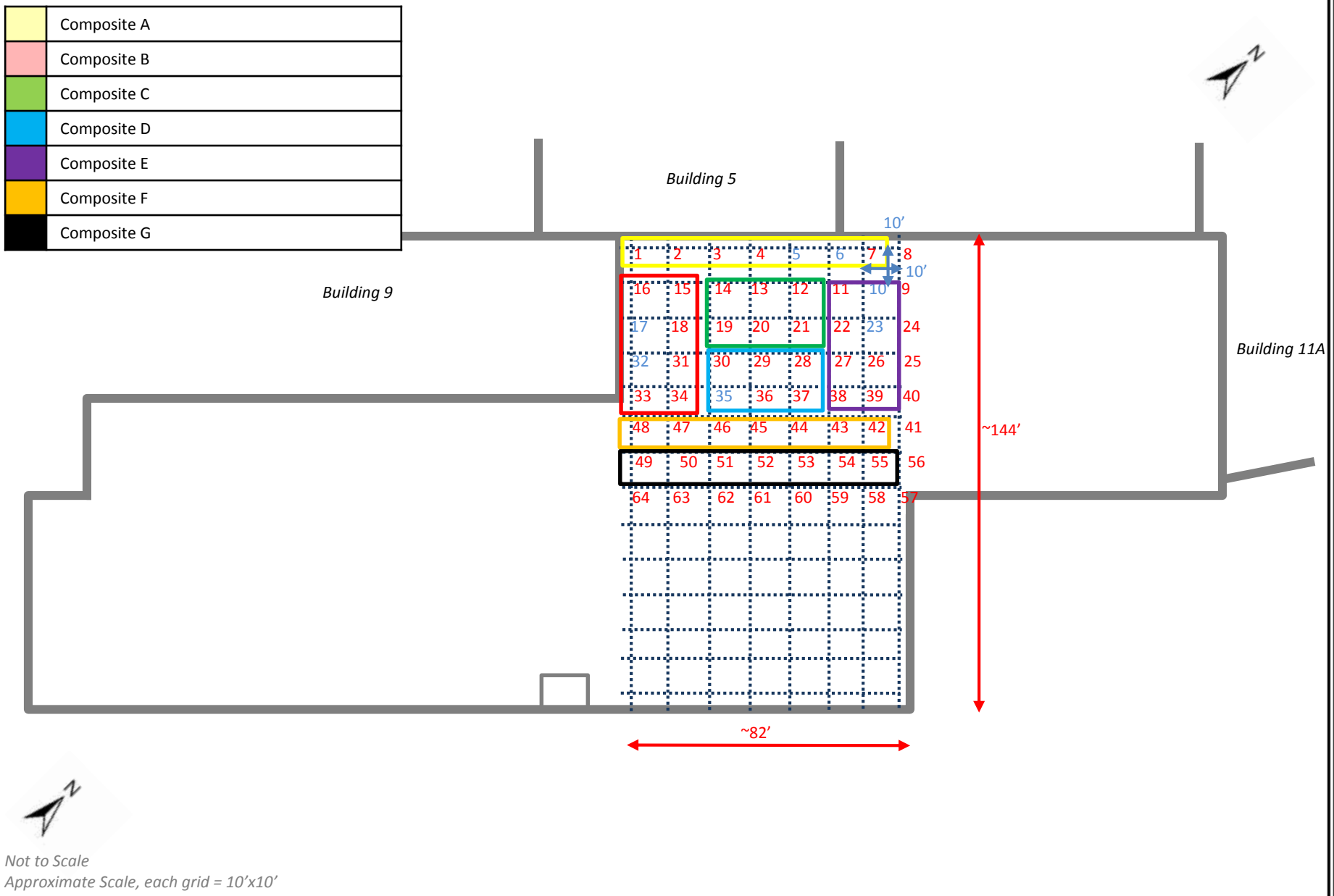


Not to Scale
Approximate Scale, each grid = 10'x10'

COCCIARDI and Associates, Inc.

Scranton Lace Redevelopment Project- Environmental Remediation
CAI No. 150794

Buildings 8-10: PCB Sample Locations



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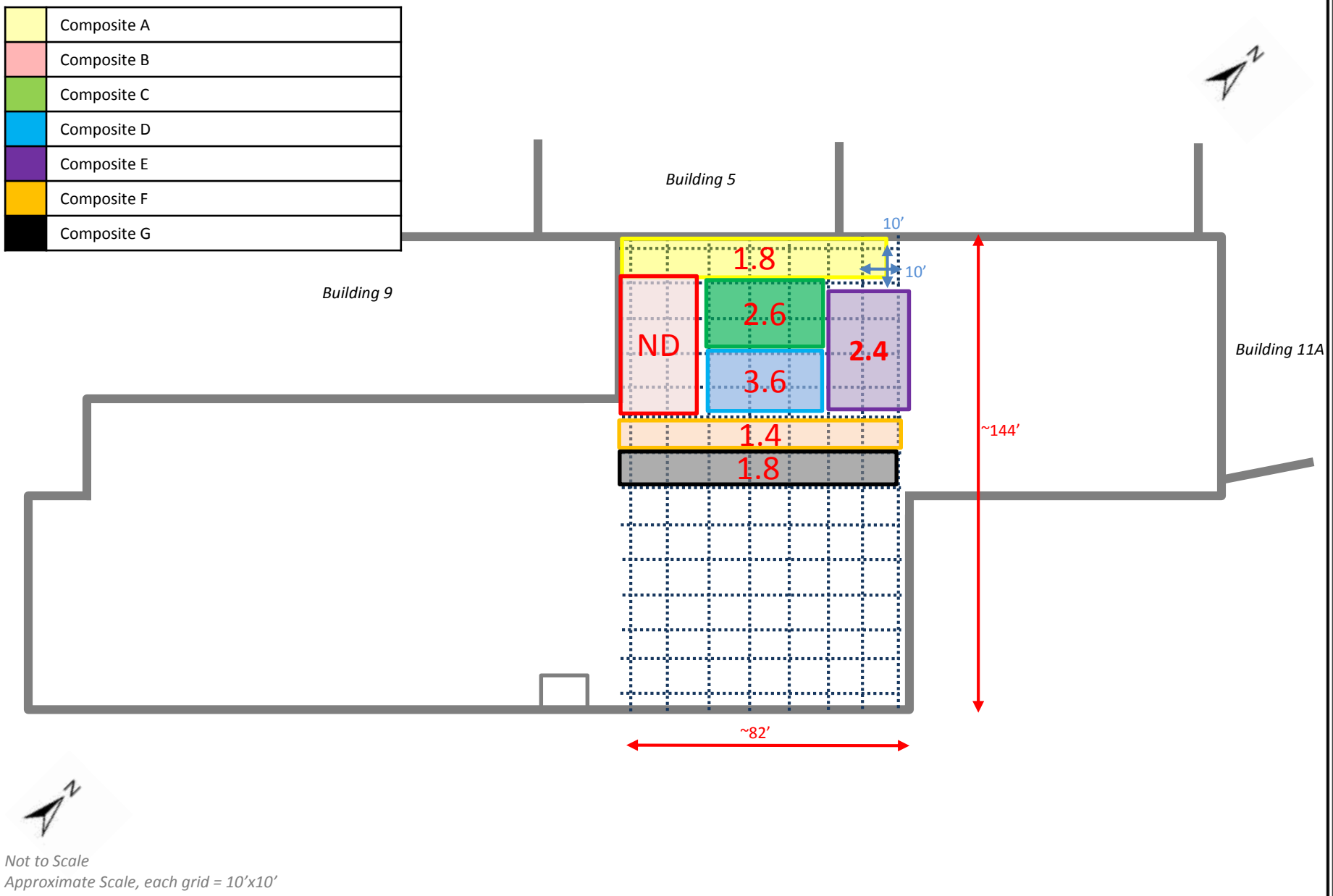
Scranton Lace Redevelopment Project- Environmental Remediation
CAI No. 150794

Buildings 8-10: PCB Composite Sample Design



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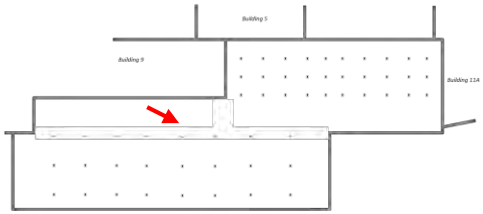
CAI No. 150794

Buildings 8-10: PCB Composite Sample Results (ppm)



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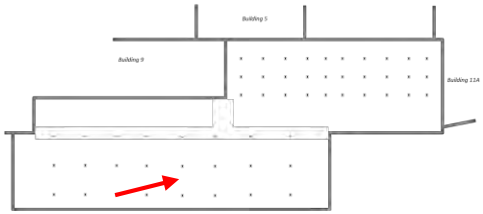
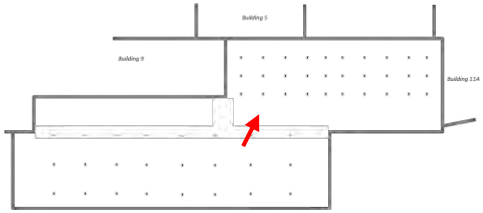
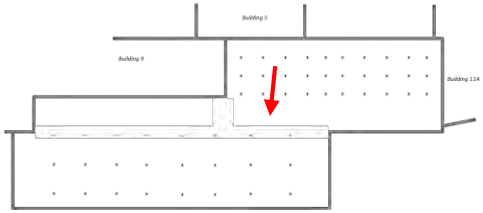
Scranton Lace Redevelopment Project- Environmental Remediation
CAI No. 150794

Buildings 8-10


Building 5
Building 9
Building 11A

	Assumed area of concern

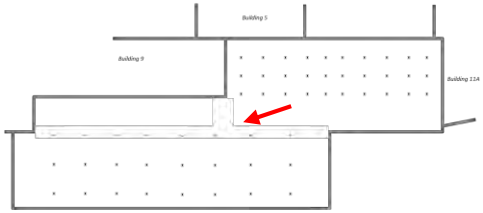




COCCIARDI and Associates, Inc.

Scranton Lace Redevelopment Project- Environmental Remediation
CAI No. 150794

Buildings 8-10



COCCIARDI and Associates, Inc.

Scranton Lace Redevelopment Project- Environmental Remediation
CAI No. 150794

Buildings 8-10

Client:	Scranton Lace Affiliates	**Date(s):**	7/26/16
Project/Site:	Scranton Lace	**Personnel:**	MB, DD, CY, JD
Project No.:	150794		

Building	Sample ID	Substrate	Depth	Type	Comments	Result
8-10	1-8-1A	Concrete	0-0.5”	PRE		
8-10	1-8-2A	Concrete	0-0.5”	PRE		
8-10	1-8-3A	Concrete	0-0.5”	PRE		
8-10	1-8-4A	Concrete	0-0.5”	PRE		
8-10	1-8-5A	Concrete	n/a	n/a	Inaccessible	n/a
8-10	1-8-6A	Concrete	n/a	n/a	Inaccessible	n/a
8-10	1-8-7A	Concrete	0-0.5”	PRE		
8-10	1-8-8A	Concrete	0-0.5”	PRE		
8-10	1-8-9A	Concrete	0-0.5”	PRE		
8-10	1-8-10A	Concrete	n/a	n/a	Inaccessible	n/a
8-10	1-8-11A	Concrete	0-0.5”	PRE		
8-10	1-8-12A	Concrete	0-0.5”	PRE		
8-10	1-8-13A	Concrete	0-0.5”	PRE		
8-10	1-8-14A	Concrete	0-0.5”	PRE		
8-10	1-8-15A	Concrete	0-0.5”	PRE		
8-10	1-8-16A	Concrete	0-0.5”	PRE		
8-10	1-8-17A	Concrete	n/a	n/a	Inaccessible	n/a
8-10	1-8-18A	Concrete	0-0.5”	PRE		
8-10	1-8-19A	Concrete	0-0.5”	PRE		
8-10	1-8-20A	Concrete	0-0.5”	PRE		
8-10	1-8-21A	Concrete	0-0.5”	PRE		
8-10	1-8-22A	Concrete	0-0.5”	PRE		
8-10	1-8-23A	Concrete	n/a	n/a	Inaccessible	n/a
8-10	1-8-24A	Concrete	0-0.5”	PRE		
8-10	1-8-25A	Concrete	0-0.5”	PRE		
8-10	1-8-26A	Concrete	0-0.5”	PRE		
8-10	1-8-27A	Concrete	0-0.5”	PRE		
8-10	1-8-28A	Concrete	0-0.5”	PRE		

COCCIARDI and Associates, Inc.

Client: Scranton Lace Affiliates
Project/Site: Scranton Lace
Project No.: 150794

Date(s): 7/26/16
Personnel: MB, DD, CY, JD

Building	Sample ID	Substrate	Depth	Type	Composite	Result
8-10	1-8-AA	Concrete	0-0.5”	Pre	Locations 1,2,3,4,7	1.8
8-10	1-8-BA	Concrete	0-0.5”	Pre	Locations 15,16,18,31,33,34	ND
8-10	1-8-CA	Concrete	0-0.5”	Pre	Locations 12,13,14,19,20,21	2.6
8-10	1-8-DA	Concrete	0-0.5”	Pre	Locations 28,29,30,36,37	3.6
8-10	1-8-EA	Concrete	0-0.5”	Pre	Locations 11,22,26,27,38,39	2.4
8-10	1-8-FA	Concrete	0-0.5”	Pre	Locations 42,43,44,45,46,47,48	1.4
8-10	1-8-GA	Concrete	0-0.5”	Pre	Locations 49,50,51,52,53,54,55	1.8

COCCIARDI and Associates, Inc.

Client: Scranton Lace Affiliates
Project/Site: Scranton Lace
Project No.: 150794

Date(s): 7/26/16
Personnel: MB, DD, CY, JD

Building	Sample ID	Substrate	Depth	Type	Comments	Result
8-10	1-8-62A	Concrete	0-0.5”	PRE		
8-10	1-8-63A	Concrete	0-0.5”	PRE		
8-10	1-8-64A	Concrete	0-0.5”	PRE		

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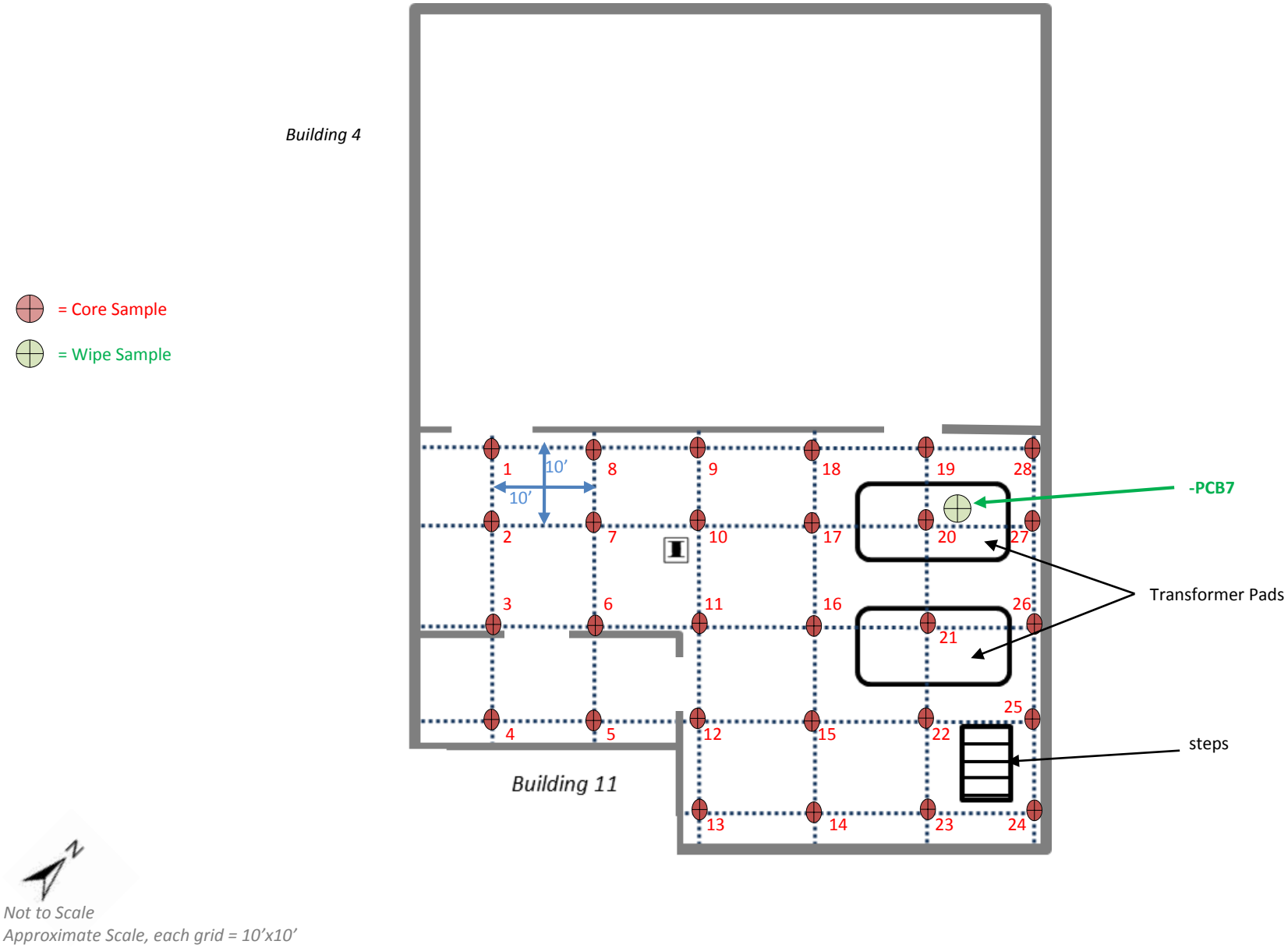
Scranton Lace Redevelopment Project: Environmental Remediation

BUILDING 13



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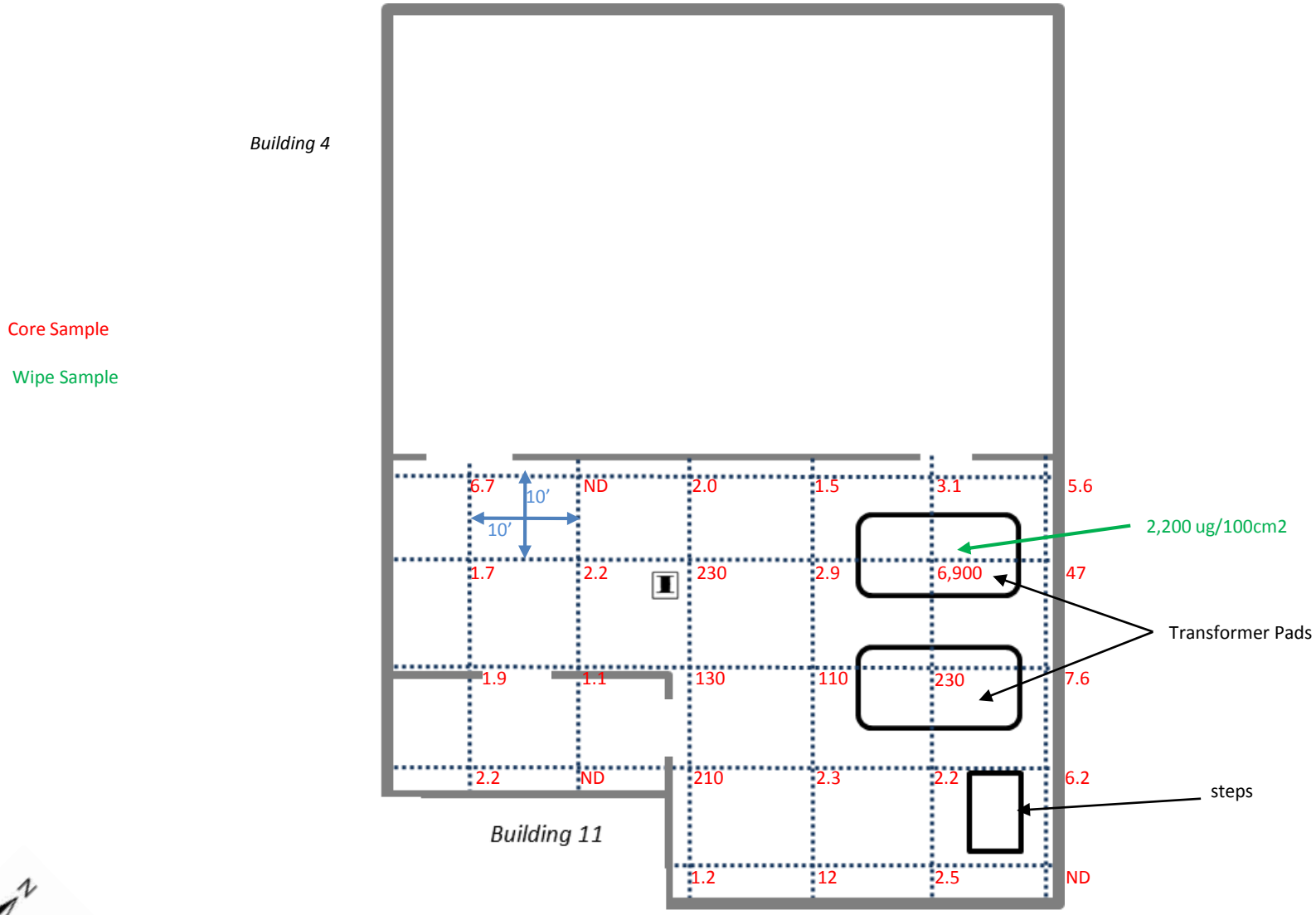
Scranton Lace Redevelopment Project- Environmental Remediation
CAI No. 150794

Building 13 Second Floor: PCB Sample Locations



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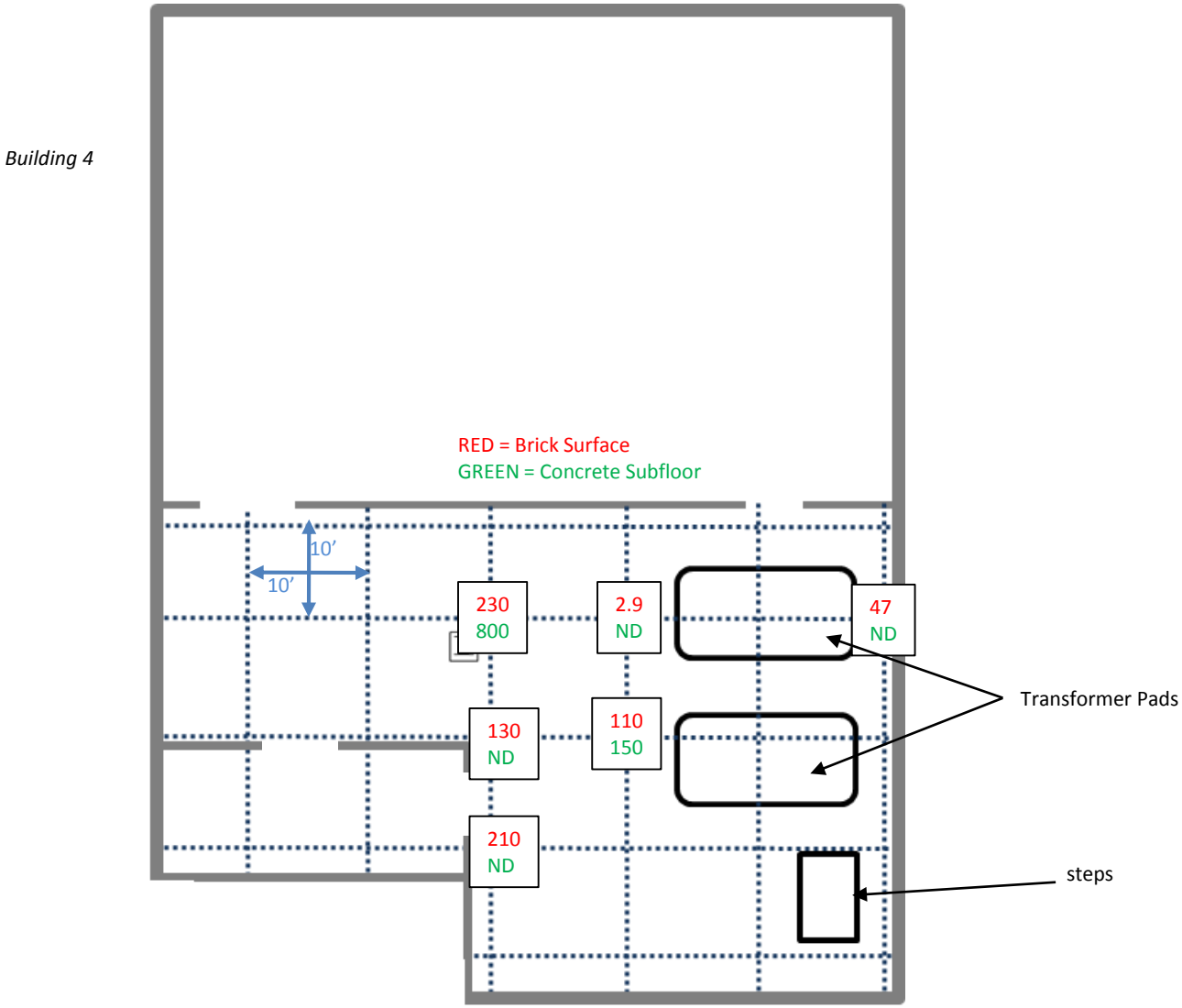
Scranton Lace Redevelopment Project- Environmental Remediation
CAI No. 150794

Building 13 Second Floor: PCB Sample Results at 0-0.5" depth (ppm or ug/100cm^2)



Not to Scale
Approximate Scale, each grid = 10'x10'

COCCIARDI and Associates, Inc.

Scranton Lace Redevelopment Project- Environmental Remediation
CAI No. 150794

Building 13 Second Floor: PCB Sample Results, 0.5-2" depth (ppm)

Building 13: 2nd Floor Former Transformer Area

COCCIARDI and Associates, Inc.

Client: Scranton Lace Affiliates
Project/Site: Scranton Lace
Project No.: 150794

Date(s): 7/7/16
Personnel: DD, MB, CY

Building	Sample ID	Substrate	Depth	Type	Comments	Result
13	1-13-21A	Concrete	0-0.5”	Pre	Collected 7/7/16; (Berm)	230
13	1-13-1A	Brick*	0-0.5”	Pre	Collected 7/15/16	6.7
13	1-13-2A	Brick*	0-0.5”	Pre	Collected 7/15/16	1.7
13	1-13-3A	Brick*	0-0.5”	Pre	Collected 7/15/16	1.9
13	1-13-4A	Concrete	0-0.5”	Pre	Collected 7/15/16	2.2
13	1-13-5A	Brick*	0-0.5”	Pre	Collected 7/15/16	ND
13	1-13-6A	Brick*	0-0.5”	Pre	Collected 7/15/16	1.1
13	1-13-7A	Brick*	0-0.5”	Pre	Collected 7/15/16	2.2
13	1-13-8A	Brick*	0-0.5”	Pre	Collected 7/15/16	ND
13	1-13-9A	Brick*	0-0.5”	Pre	Collected 7/15/16	2.0
13	1-13-10A	Brick*	0-0.5”	Pre	Collected 7/15/16	230
13	1-13-11A	Brick*	0-0.5”	Pre	Collected 7/15/16	130
13	1-13-12A	Brick*	0-0.5”	Pre	Collected 7/15/16	210
13	1-13-13A	Brick*	0-0.5”	Pre	Collected 7/15/16	1.2
13	1-13-14A	Brick*	0-0.5”	Pre	Collected 7/15/16	12
13	1-13-15A	Brick*	0-0.5”	Pre	Collected 7/15/16	2.3
13	1-13-16A	Brick*	0-0.5”	Pre	Collected 7/15/16	110
13	1-13-17A	Brick*	0-0.5”	Pre	Collected 7/15/16	2.9
13	1-13-18A	Brick*	0-0.5”	Pre	Collected 7/15/16	1.5
13	1-13-19A	Brick*	0-0.5”	Pre	Collected 7/15/16	3.1
13	1-13-20A	Sand/Soil	0-0.5”	Pre	Collected 7/15/16; (Berm)	6,900
13	1-13-22A	Brick*	0-0.5”	Pre	Collected 7/15/16	2.0
13	1-13-23A	Brick*	0-0.5”	Pre	Collected 7/15/16	2.5
13	1-13-24A	Brick*	0-0.5”	Pre	Collected 7/15/16	ND
13	1-13-25A	Concrete	0-0.5”	Pre	Collected 7/15/16	6.2
13	1-13-26A	Brick*	0-0.5”	Pre	Collected 7/15/16	7.6
13	1-13-27A	Brick*	0-0.5”	Pre	Collected 7/15/16	47
13	1-13-28A	Brick*	0-0.5”	Pre	Collected 7/15/16	5.6

*Concrete beneath brick

COCCIARDI and Associates, Inc.

Client: Scranton Lace Affiliates
Project/Site: Scranton Lace
Project No.: 150794

Date(s): 8/11/16
Personnel: DD, JD, CY

Building	Sample ID	Substrate	Depth	Type	Comments	Result
13	1-13-10B	Concrete	0.5-1”	PRE	Concrete below brick flooring	800 ppm
13	1-13-11B	Concrete	0.5-1”	PRE	Concrete below brick flooring	ND
13	1-13-12B	Concrete	0.5-1”	PRE	Concrete below brick flooring	ND
13	1-13-16B	Concrete	0.5-1”	PRE	Concrete below brick flooring	150 ppm
13	1-13-17B	Concrete	0.5-1”	PRE	Concrete below brick flooring	ND
13	1-13-27B	Concrete	0.5-1”	PRE	Concrete below brick flooring	ND

COCCIARDI and Associates, Inc.

Safety • Environmental Health • Emergency Preparedness
Consulting and Training

Attachment IV

Laboratory Sampling Reports

Provided To:

United States Environmental Protection Agency

Notification and Certification in compliance with 40 CFR 761.61(a)(3)

Cocciardi Project No. 150794

EMSL ANALYTICAL, INC.
LABORATORY · PROJECTS · TRAINING

Environmental Chemistry Chain of Custody

EMSL Order Number (*Lab Use Only*): 011601890

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-5974

Report To Contact Name: Mike Baltrusaitis		**Bill To Company:** SAME	
Company Name: Cocciardi & Associates, Inc.		**Attention To:**	
Street: 1337 Veterans Memorial Drive		**Street:**	
City: Jessup **State/Province:** PA	**Zip/Postal Code:** 18434	**City:** **State/Province:**	**Zip/Postal Code:**
Phone: 570-291-0030 **Fax:** 570-291-0035		**Phone:** **Fax:**	
Project Name: Lace Building Affiliates		**U.S. State where Samples Collected:** PA	
Number of Samples in Shipment: 7	**Date of Shipment:** 3/30/16	**Purchase Order:** 150794	**Sampled By (Signature):** MB / JD
Please Provide results: ☐ Fax ☒ Email ☐ Mail		**Email Results To:** mbaltrusaitis@cocciardi.com	
Standard Turnaround Time: ☐ 2 Weeks		**The following TAT's are subject to lab approval:** ☒ 1 Week ☐ 4 Days ☐ 3 Days ☐ 2 Days ☐ 1 Day	

Failure to complete will hinder processing of samples

	Client Sample ID	Comp	Grab	Date/Time	Matrix (W=Water S=Soil A=Air SL=Sludge O= Other)	Preservative (1=HCL 2=HNO3 3=H2SO4 4=ICE 5=Other)	List Test(s) Needed								Comments
1	150794-PCB1		✓	3/30/16 10:00	O	5	EPA	SW-846	3580A/8082A						Bulk/Oil Product
2	150794-PCB2		✓	↓	O	5	EPA	SW-846	3550B/8082A						Wipe
3	150794-PCB3		✓	↓	O	5			↓						↓
4	150794-PCB4	✓		↓	O	5			↓						↓
5	150794-PCB5	✓		↓	O	5			↓						↓

Released By (Signature)	Date & Time	Received By	Date & Time
[signature]	3/30/16 16:00	Megan [signature]	3/31/16 09:30 4°

Please indicate reporting requirements: ☒ Results Only ☐ Results and QC ☐ Reduced Deliverables ☐ Disk Deliverable ☐ Other _____

Instructions or Comments: emailed - wipe area MG 3/31/16

Per Jim - 100 cm² 3/31

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Environmental Chemistry Chain of Custody

EMSL Order Number (*Lab Use Only*): 011601890

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-5974

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Failure to complete will hinder processing of samples				Matrix	Preservative	List Test(s) Needed								
Client Sample ID	Comp	Grab	Date/Time	W=Water S=Soil A=Air SL=Sludge O= Other	1=HCL 2=HNO3 3=H2SO4 4=ICE 5=Other									Comments
6 150794-PCB6		✓	3/30/16 1000	O	5	EPA	SW-846	3550B/	8082A					Wipe
7 150794-PCB7		✓	↓	O	5				↓					↓

Controlled Document – Environmental Chemistry COC – R4 – 12/27/2011

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone: (856) 303-2500 Fax: (856) 858-4571 Email: EnvChemistry2@emsl.com

Attn: **Mike Baltrusaitis**
Cocciardi & Associates Inc.
1337 Veterans Memorial Drive
Jessup, PA 18434

Phone:
Fax: (570) 963-0242

4/8/2016

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 3/31/2016. The results are tabulated on the attached data pages for the following client designated project:

Lace Building Affiliates

The reference number for these samples is EMSL Order #011601890. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

Phillip Worby, Chemistry Laboratory Manager

The test results contained within this report meet the requirements of NELAP and/or the specific certification program that is applicable, unless otherwise noted.
NELAP Certifications: NJ 03036, NY 10872, PA 68-00367

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the NELAP, unless specifically indicated. All results for soil samples are reported on a dry weight basis, unless otherwise noted. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (856) 303-2500 / (856) 858-4571
http://www.EMSL.com EnvChemistry2@emsl.com

EMSL Order:	011601890
CustomerID:	COCC45
CustomerPO:	150794
ProjectID:	

Attn: **Mike Baltrusaitis**
Cocciardi & Associates Inc.
1337 Veterans Memorial Drive
Jessup, PA 18434

Phone:
Fax: (570) 963-0242
Received: 03/31/16 9:30 AM

Project: **Lace Building Affiliates**

Analytical Results

Client Sample Description 150794-PCB1 ***Collected:*** 3/30/2016 ***Lab ID:*** *0001*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3580A/8082	Aroclor-1016	ND	0.48	mg/Kg	4/6/2016	TC	4/7/2016	TL
3580A/8082	Aroclor-1221	ND	0.48	mg/Kg	4/6/2016	TC	4/7/2016	TL
3580A/8082	Aroclor-1232	ND	0.48	mg/Kg	4/6/2016	TC	4/7/2016	TL
3580A/8082	Aroclor-1242	0.67	0.48	mg/Kg	4/6/2016	TC	4/7/2016	TL
3580A/8082	Aroclor-1248	ND	0.48	mg/Kg	4/6/2016	TC	4/7/2016	TL
3580A/8082	Aroclor-1254	ND	0.48	mg/Kg	4/6/2016	TC	4/7/2016	TL
3580A/8082	Aroclor-1260	0.93	0.48	mg/Kg	4/6/2016	TC	4/7/2016	TL
3580A/8082	Aroclor-1262	ND	0.48	mg/Kg	4/6/2016	TC	4/7/2016	TL
3580A/8082	Aroclor-1268	ND	0.48	mg/Kg	4/6/2016	TC	4/7/2016	TL

Client Sample Description 150794-PCB2 ***Collected:*** 3/30/2016 ***Lab ID:*** *0002*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.50	µg/100 cm²	4/6/2016	AB	4/6/2016	EH
3550C/8082A	Aroclor-1221	ND	0.50	µg/100 cm²	4/6/2016	AB	4/6/2016	EH
3550C/8082A	Aroclor-1232	ND	0.50	µg/100 cm²	4/6/2016	AB	4/6/2016	EH
3550C/8082A	Aroclor-1242	ND	0.50	µg/100 cm²	4/6/2016	AB	4/6/2016	EH
3550C/8082A	Aroclor-1248	15	0.50	µg/100 cm²	4/6/2016	AB	4/6/2016	EH
3550C/8082A	Aroclor-1254	7.4	0.50	µg/100 cm²	4/6/2016	AB	4/6/2016	EH
3550C/8082A	Aroclor-1260	ND	0.50	µg/100 cm²	4/6/2016	AB	4/6/2016	EH
3550C/8082A	Aroclor-1262	ND	0.50	µg/100 cm²	4/6/2016	AB	4/6/2016	EH
3550C/8082A	Aroclor-1268	ND	0.50	µg/100 cm²	4/6/2016	AB	4/6/2016	EH

Client Sample Description 150794-PCB3 ***Collected:*** 3/30/2016 ***Lab ID:*** *0003*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.50	µg/100 cm²	4/6/2016	AB	4/6/2016	EH
3550C/8082A	Aroclor-1221	ND	0.50	µg/100 cm²	4/6/2016	AB	4/6/2016	EH
3550C/8082A	Aroclor-1232	ND	0.50	µg/100 cm²	4/6/2016	AB	4/6/2016	EH
3550C/8082A	Aroclor-1242	ND	0.50	µg/100 cm²	4/6/2016	AB	4/6/2016	EH
3550C/8082A	Aroclor-1248	10	0.50	µg/100 cm²	4/6/2016	AB	4/6/2016	EH
3550C/8082A	Aroclor-1254	20	0.50	µg/100 cm²	4/6/2016	AB	4/6/2016	EH
3550C/8082A	Aroclor-1260	ND	0.50	µg/100 cm²	4/6/2016	AB	4/6/2016	EH
3550C/8082A	Aroclor-1262	ND	0.50	µg/100 cm²	4/6/2016	AB	4/6/2016	EH
3550C/8082A	Aroclor-1268	ND	0.50	µg/100 cm²	4/6/2016	AB	4/6/2016	EH

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (856) 303-2500 / (856) 858-4571
http://www.EMSL.com EnvChemistry2@emsl.com

EMSL Order:	011601890
CustomerID:	COCC45
CustomerPO:	150794
ProjectID:	

Attn: **Mike Baltrusaitis**
Cocciardi & Associates Inc.
1337 Veterans Memorial Drive
Jessup, PA 18434

Phone:
Fax: (570) 963-0242
Received: 03/31/16 9:30 AM

Project: **Lace Building Affiliates**

Analytical Results

Client Sample Description 150794-PCB4 ***Collected:*** 3/30/2016 ***Lab ID:*** *0004*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	2.5	µg/100 cm²	4/6/2016	AB	4/6/2016	EH
3550C/8082A	Aroclor-1221	ND	2.5	µg/100 cm²	4/6/2016	AB	4/6/2016	EH
3550C/8082A	Aroclor-1232	ND	2.5	µg/100 cm²	4/6/2016	AB	4/6/2016	EH
3550C/8082A	Aroclor-1242	ND	2.5	µg/100 cm²	4/6/2016	AB	4/6/2016	EH
3550C/8082A	Aroclor-1248	39	2.5	µg/100 cm²	4/6/2016	AB	4/6/2016	EH
3550C/8082A	Aroclor-1254	16	2.5	µg/100 cm²	4/6/2016	AB	4/6/2016	EH
3550C/8082A	Aroclor-1260	3.9	2.5	µg/100 cm²	4/6/2016	AB	4/6/2016	EH
3550C/8082A	Aroclor-1262	ND	2.5	µg/100 cm²	4/6/2016	AB	4/6/2016	EH
3550C/8082A	Aroclor-1268	ND	2.5	µg/100 cm²	4/6/2016	AB	4/6/2016	EH

Client Sample Description 150794-PCB5 ***Collected:*** 3/30/2016 ***Lab ID:*** *0005*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.50	µg/100 cm²	4/6/2016	AB	4/6/2016	EH
3550C/8082A	Aroclor-1221	ND	0.50	µg/100 cm²	4/6/2016	AB	4/6/2016	EH
3550C/8082A	Aroclor-1232	ND	0.50	µg/100 cm²	4/6/2016	AB	4/6/2016	EH
3550C/8082A	Aroclor-1242	1.8	0.50	µg/100 cm²	4/6/2016	AB	4/6/2016	EH
3550C/8082A	Aroclor-1248	ND	0.50	µg/100 cm²	4/6/2016	AB	4/6/2016	EH
3550C/8082A	Aroclor-1254	1.4	0.50	µg/100 cm²	4/6/2016	AB	4/6/2016	EH
3550C/8082A	Aroclor-1260	0.84	0.50	µg/100 cm²	4/6/2016	AB	4/6/2016	EH
3550C/8082A	Aroclor-1262	ND	0.50	µg/100 cm²	4/6/2016	AB	4/6/2016	EH
3550C/8082A	Aroclor-1268	ND	0.50	µg/100 cm²	4/6/2016	AB	4/6/2016	EH

Client Sample Description 150794-PCB6 ***Collected:*** 3/30/2016 ***Lab ID:*** *0006*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	2.5	µg/100 cm²	4/6/2016	AB	4/6/2016	EH
3550C/8082A	Aroclor-1221	ND	2.5	µg/100 cm²	4/6/2016	AB	4/6/2016	EH
3550C/8082A	Aroclor-1232	ND	2.5	µg/100 cm²	4/6/2016	AB	4/6/2016	EH
3550C/8082A	Aroclor-1242	ND	2.5	µg/100 cm²	4/6/2016	AB	4/6/2016	EH
3550C/8082A	Aroclor-1248	37	2.5	µg/100 cm²	4/6/2016	AB	4/6/2016	EH
3550C/8082A	Aroclor-1254	ND	2.5	µg/100 cm²	4/6/2016	AB	4/6/2016	EH
3550C/8082A	Aroclor-1260	ND	2.5	µg/100 cm²	4/6/2016	AB	4/6/2016	EH
3550C/8082A	Aroclor-1262	ND	2.5	µg/100 cm²	4/6/2016	AB	4/6/2016	EH
3550C/8082A	Aroclor-1268	ND	2.5	µg/100 cm²	4/6/2016	AB	4/6/2016	EH

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (856) 303-2500 / (856) 858-4571
http://www.EMSL.com EnvChemistry2@emsl.com

EMSL Order:	011601890
CustomerID:	COCC45
CustomerPO:	150794
ProjectID:	

Attn: **Mike Baltrusaitis**
Cocciardi & Associates Inc.
1337 Veterans Memorial Drive
Jessup, PA 18434

Phone:
Fax: (570) 963-0242
Received: 03/31/16 9:30 AM

Project: **Lace Building Affiliates**

Analytical Results

Client Sample Description 150794-PCB7 ***Collected:*** 3/30/2016 ***Lab ID:*** *0007*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date*	*Analyst*	*Analysis Date*	*Analyst*
3550C/8082A	Aroclor-1016	ND	200	µg/100 cm²	4/6/2016	AB	4/6/2016	EH
3550C/8082A	Aroclor-1221	ND	200	µg/100 cm²	4/6/2016	AB	4/6/2016	EH
3550C/8082A	Aroclor-1232	ND	200	µg/100 cm²	4/6/2016	AB	4/6/2016	EH
3550C/8082A	Aroclor-1242	ND	200	µg/100 cm²	4/6/2016	AB	4/6/2016	EH
3550C/8082A	Aroclor-1248	ND	200	µg/100 cm²	4/6/2016	AB	4/6/2016	EH
3550C/8082A	Aroclor-1254	ND	200	µg/100 cm²	4/6/2016	AB	4/6/2016	EH
3550C/8082A	Aroclor-1260	2200	200	µg/100 cm²	4/6/2016	AB	4/6/2016	EH
3550C/8082A	Aroclor-1262	ND	200	µg/100 cm²	4/6/2016	AB	4/6/2016	EH
3550C/8082A	Aroclor-1268	ND	200	µg/100 cm²	4/6/2016	AB	4/6/2016	EH

Definitions:

ND - indicates that the analyte was not detected at the reporting limit
RL - Reporting Limit

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Environmental Chemistry Chain of Custody

EMSL Order Number (*Lab Use Only*): 011604417

EMSL Analytical, Inc.
200 Route 130 North

Cinnaminson, NJ 08077
PHONE: **1-800-220-3675**
FAX: **(856) 786-5974**

Report To Contact Name: Mike Baltrusaitis			**Bill To Company:** -Same-		
Company Name: Cocciardi and Associates, Inc.			**Attention To:**		
Street: 1337 Veterans Memorial Drive			**Street:**		
City: Jessup	**State/Province:** PA	**Zip Code:** 18434	**City:**	**State/Province:**	**Zip Code:**
Phone : 5702910030	**Fax :** 5702910035		**Phone:**	**Fax:**	
Project Name: Scranton Lace / 150794				**U.S. State where Samples Collected:** PA	
Number of Samples in Shipment: 86	**Date of Shipment:** 7/7/16		**Purchase Order:** 150794	**Sampled By (Signature):** MB S	
Please Provide results: ☐ FAX ☑ E-mail ☐ Mail			**Email Results To:** mbaltrusaitis@cocciardi.com		
Standard Turnaround Time: ☑ 2 Weeks			**The following TAT's are subject to lab approval:** ☐ 1 Week ☐ 4 Days ☐ 3 Days ☐ 2 Days ☐ 1 Day		

Failure to complete will hinder processing of samples

	Client Sample ID	Comp	Grab	Date/Time	Matrix (W=Water S=Soil A=Air SL=Sludge O= Other)	Preservative (1=HCL 2=HNO3 3=H2SO4 4=ICE 5=Other)	PCB *								Comments
1	1-3-1A		✓	7/7/16	O	4	✓								
2	1-3-2A		✓	↓	O	4	✓								
3	1-3-3A		✓		O	4	✓								
4	1-3-4A		✓		O	4	✓								
5	1-3-5A		✓		O	4	✓								

Released By (Signature)	Date & Time	Received By	Date & Time
MB S	07/07/16	[illegible] EMSL Fexd 9:15am	7/11/16 22.8°C

Please indicate reporting requirements: ☒ Results Only ☐ Results and QC ☐ Reduced Deliverables ☐ Disk Deliverable ☐ Other _____

Instructions or Comments:

*PCB By EPA SW846/3550B/8082A

OrderID: 011604417

EMSL ANALYTICAL, INC.
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EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
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Environmental Chemistry Chain of Custody

EMSL Order Number (*Lab Use Only*): 011604417

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Failure to complete will hinder processing of samples

	Client Sample ID	Comp	Grab	Date/Time	Matrix (W=Water, S=Soil, A=Air, SL=Sludge, O= Other)	Preservative (1=HCL, 2=HNO3, 3=H2SO4, 4=ICE, 5=Other)	List Test(s): P, C, B*							Comments
6	1-3-6A		✓	7/7/16	O	4	✓							
7	1-3-7A		✓		O	4	✓							
8	1-3-8A		✓		O	4	✓							
9	1-3-9A		✓		O	4	✓							
10	1-3-10A		✓		O	4	✓							
11	1-3-11A		✓		O	4	✓							
12	1-3-12A		✓		O	4	✓							
13	1-3-13A		✓		O	4	✓							
14	1-3-14A		✓		O	4	✓							
15	1-3-15A		✓		O	4	✓							
16	1-3-16A		✓		O	4	✓							
17	1-3-17A		✓		O	4	✓							
18	1-3-18A		✓		O	4	✓							
19	1-3-19A		✓		O	4	✓							
20	1-3-20A		✓		O	4	✓							
21	1-3-21A		✓		O	4	✓							
22	1-3-22A		✓		O	4	✓							

OrderID: 011604417

EMSL Analytical, Inc.
200 Route 130 North

Cinnaminson, NJ 08077
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EMSL ANALYTICAL, INC.
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Environmental Chemistry Chain of Custody

EMSL Order Number (*Lab Use Only*): 011604417

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

	Failure to complete will hinder processing of samples				Matrix	Preservative	List Test(s)							
	Client Sample ID	Comp	Grab	Date/Time	W=Water S=Soil A=Air SL=Sludge O= Other	1=HCL 2=HNO3 3=H2SO4 4=ICE 5=Other	P C 3A							Comments
23	1-3-23A		✓	7/7/16	O	4	✓							
24	1-3-24A		✓		O	4	✓							
25	1-3-25A		✓		O	4	✓							
26	1-4-1A		✓		O	4	✓							
27	1-4-2A		✓		O	4	✓							
28	1-4-3A		✓		O	4	✓							
29	1-4-4A		✓		O	4	✓							
30	1-4-5A		✓		O	4	✓							
31	1-4-6A		✓		O	4	✓							
32	1-4-7A		✓		O	4	✓							
33	1-4-8A		✓		O	4	✓							
34	1-4-9A		✓		O	4	✓							
35	1-4-10A		✓		O	4	✓							
36	1-4-11A		✓		O	4	✓							
37	1-4-12A		✓		O	4	✓							
38	1-4-13A		✓		O	4	✓							
39	1-4-14A		✓		O	4	✓							

OrderID: 011604417

EMSL Analytical, Inc.
200 Route 130 North

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Environmental Chemistry Chain of Custody

EMSL Order Number (*Lab Use Only*): 011604417

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

	Failure to complete will hinder processing of samples				Matrix	Preservative	List Test(s)							
	Client Sample ID	Comp	Grab	Date/Time	W=Water S=Soil A=Air SL=Sludge O= Other	1=HCL 2=HNO3 3=H2SO4 4=ICE 5=Other	P C B*							Comments
40	1-4-15A		✓	7/7/16	O	4	✓							
41	1-4-16A		✓		O	4	✓							
42	1-4-17A		✓		O	4	✓							
43	1-4-18A		✓		O	4	✓							
44	1-4-19A		✓		O	4	✓							
45	1-4-20A		✓		O	4	✓							
46	1-4-21A		✓		O	4	✓							
47	1-4-22A		✓		O	4	✓							
48	1-4-23A		✓		O	4	✓							
49	1-4-24A		✓		O	4	✓							
50	1-4-25A		✓		O	4	✓							
51	1-4-26A		✓		O	4	✓							
52	1-4-27A		✓		O	4	✓							
53	1-4-28A		✓		O	4	✓							
54	1-4-29A		✓		O	4	✓							
55	1-4-30A		✓		O	4	✓							
56	1-4-31A		✓		O	4	✓							

OrderID: 011604417

EMSL Analytical, Inc.
200 Route 130 North

Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
FAX: (856) 786-5974

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Environmental Chemistry Chain of Custody

EMSL Order Number (*Lab Use Only*): 011604417

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

	Failure to complete will hinder processing of samples				Matrix	Preservative	List Test(s)							
	Client Sample ID	Comp	Grab	Date/Time	W=Water S=Soil A=Air SL=Sludge O= Other	1=HCL 2=HNO3 3=H2SO4 4=ICE 5=Other	P C B*							Comments
57	1-4-32A		✓	7/7/16	O	4	✓							
58	1-4-33A		✓		O	4	✓							
59	1-4-34A		✓		O	4	✓							
60	1-4-35A		✓		O	4	✓							
61	1-4-36A		✓		O	4	✓							
62	1-4-37A		✓		O	4	✓							
63	1-4-38A		✓		O	4	✓							
64	1-4-39A		✓		O	4	✓							
65	1-4-40A		✓		O	4	✓							
66	1-4-41A		✓		O	4	✓							
67	1-4-42A		✓		O	4	✓							
68	1-4-43A		✓		O	4	✓							
69	1-4-44A		✓		O	4	✓							
70	1-4-45A		✓		O	4	✓							
71	1-4-46A		✓		O	4	✓							
72	1-4-47A		✓		O	4	✓							
73	1-4-48A		✓		O	4	✓							

OrderID: 011604417

EMSL Analytical, Inc.
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Environmental Chemistry Chain of Custody

EMSL Order Number (*Lab Use Only*): 011604417

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

	Failure to complete will hinder processing of samples				Matrix	Preservative	List Test(s)							
	Client Sample ID	Comp	Grab	Date/Time	W=Water S=Soil A=Air SL=Sludge O= Other	1=HCL 2=HNO3 3=H2SO4 4=ICE 5=Other	P C B*							Comments
74	1-4-49A		✓	7/7/16	O	4	✓							
75	1-4-50A		✓		O	4	✓							
76	1-4-51A		✓		O	4	✓							
77	1-4-52A		✓		O	4	✓							
78	1-4-53A		✓		O	4	✓							
79	1-4-54A		✓		O	4	✓							
80	1-4-55A		✓		O	4	✓							
81	1-4-56A		✓		O	4	✓							
82	1-4-57A		✓		O	4	✓							
83	1-4-58A		✓		O	4	✓							
84	1-4-59A		✓		O	4	✓							
85	1-4-60A		✓		O	4	✓							
86	1-13-21A		✓	7/7/16	O	4	✓							

Page 6 of 6 pages

OrderID: 011604417

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200 Route 130 North

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PHONE 1-800-220-3675
FAX (856) 786-5974

Environmental Chemistry Chain of Custody

EMSL Order Number (*Lab Use Only*): 011604646

Report To Contact Name: Mike Baltrusaitis		**Bill To Company:** -Same-	
Company Name: Cocciardi and Associates, Inc.		**Attention To:**	
Street: 1337 Veterans Memorial Drive		**Street:**	
City: Jessup	**State/Province:** PA **Zip Code:** 18434	**City:**	**State/Province:** **Zip Code:**
Phone : 5702910030	**Fax :** 5702910035	**Phone:**	**Fax:**
Project Name: Scranton Lace / 150794		**U.S. State where Samples Collected:** PA	
Number of Samples in Shipment: 38	**Date of Shipment:** 7/19/16	**Purchase Order:** 150794	**Sampled By (Signature):** MB
Please Provide results: ☐ FAX ☑ E-mail ☐ Mail		**Email Results To:** mbaltrusaitis@cocciardi.com	
Standard Turnaround Time: ■ 2 Weeks	**The following TAT's are subject to lab approval:** ☐ 1 Week ☐ 4 Days ☐ 3 Days ☐ 2 Days ☐ 1 Day		

Failure to complete will hinder processing of samples

	Client Sample ID	Comp	Grab	Date/Time	Matrix (W=Water S=Soil A=Air SL=Sludge O= Other)	Preservative (1=HCL 2=HNO3 3=H2SO4 4=ICE 5=Other)	PCB *								Comments
1	1-GA-1A		✓	7/15/16	O	4	✓								
2	1-GA-2A		✓	7/15/16	O	4	✓								
3	1-GA-3A		✓	7/15/16	O	4	✓								
4	1-GA-4A		✓	7/15/16	O	4	✓								
5	1-GA-5A		✓	7/15/16	O	4	✓								

Released By (Signature)	Date & Time	Received By	Date & Time
[signature]	07/19/16 1526	[signature] 7/20/16	9:30 23.8°C

Please indicate reporting requirements: ☒ Results Only ☐ Results and QC ☐ Reduced Deliverables ☐ Disk Deliverable ☐ Other _____

Instructions or Comments:
*PCB By EPA SW846/3550B/8082A

OrderID: 011604646

EMSL Analytical, Inc.
200 Route 130 North

Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
FAX: (856) 786-5974

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Environmental Chemistry Chain of Custody

EMSL Order Number (Lab Use Only): 011604646

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

	Failure to complete will hinder processing of samples				Matrix	Preservative	List Test(s)							
	Client Sample ID	Comp	Grab	Date/Time	W=Water S=Soil A=Air SL=Sludge O= Other	1=HCL 2=HNO3 3=H2SO4 4=ICE 5=Other	PCB							Comments
6	1-6A-6A		✓	7/15/16	O	4	✓							
7	1-6A-7A		✓	7/15/16	O	4	✓							
8	1-6A-8A		✓	7/15/16	O	4	✓							
9	1-6A-13A		✓	7/15/16	O	4	✓							
10	1-6A-18A		✓	7/15/16	O	4	✓							
11	1-6A-23A		✓	7/15/16	O	4	✓							
12	1-13-1A		✓	7/8/16	O	4	✓							
13	1-13-2A		✓	7/15/16	O	4	✓							
14	1-13-3A		✓	7/15/16	O	4	✓							
15	1-13-4A		✓	7/15/16	O	4	✓							
16	1-13-5A		✓	7/15/16	O	4	✓							
17	1-13-6A		✓	7/15/16	O	4	✓							
18	1-13-7A		✓	7/15/16	O	4	✓							
19	1-13-8A		✓	7/15/16	O	4	✓							
20	1-13-9A		✓	7/15/16	O	4	✓							
21	1-13-10A		✓	7/15/16	O	4	✓							
22	1-13-11A		✓	7/15/16	O	4	✓							

OrderID: 011604646

EMSL Analytical, Inc.
200 Route 130 North

Cinnaminson, NJ 08077
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FAX: (856) 786-5974

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Environmental Chemistry Chain of Custody

EMSL Order Number (*Lab Use Only*):

011604646

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

	Failure to complete will hinder processing of samples				Matrix	Preservative	List Test(s)							
	Client Sample ID	Comp	Grab	Date/Time	W=Water S=Soil A=Air SL=Sludge O= Other	1=HCL 2=HNO3 3=H2SO4 4=ICE 5=Other	PCB							Comments
23	1-13-12A		✓	7/15/16	O	4	✓							
24	1-13-13A		✓	7/15/16	O	4	✓							
25	1-13-14A		✓	7/15/16	O	4	✓							
26	1-13-15A		✓	7/15/16	O	4	✓							
27	1-13-16A		✓	7/15/16	O	4	✓							
28	1-13-17A		✓	7/15/16	O	4	✓							
29	1-13-18A		✓	7/15/16	O	4	✓							
30	1-13-19A		✓	7/15/16	O	4	✓							
31	1-13-20A		✓	7/15/16	O	4	✓							
32	1-13-22A		✓	7/15/16	O	4	✓							
33	1-13-23A		✓	7/15/16	O	4	✓							
34	1-13-24A		✓	7/15/16	O	4	✓							
35	1-13-25A		✓	7/15/16	O	4	✓							
36	1-13-26A		✓	7/15/16	O	4	✓							
37	1-13-27A		✓	7/15/16	O	4	✓							
38	1-13-28A		✓	7/15/16	O	4	✓							

OrderID: 011604646

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone: (856) 303-2500 Fax: (856) 858-4571 Email: EnvChemistry2@emsl.com

Attn: **Michael Baltrusaitis**
Cocciardi & Associates Inc.
1337 Senator Robert Mellow Drive
Jessup, PA 18434

Phone: (570) 291-0030
Fax: (570) 291-0035

7/25/2016

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 7/11/2016. The results are tabulated on the attached data pages for the following client designated project:

Scranton Lace / 150794

The reference number for these samples is EMSL Order #011604417. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

Phillip Worby, Chemistry Laboratory Manager

The test results contained within this report meet the requirements of NELAP and/or the specific certification program that is applicable, unless otherwise noted.
NELAP Certifications: NJ 03036, NY 10872, PA 68-00367

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the NELAP, unless specifically indicated. All results for soil samples are reported on a dry weight basis, unless otherwise noted. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

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200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (856) 303-2500 / (856) 858-4571
http://www.EMSL.com EnvChemistry2@emsl.com

EMSL Order:	011604417
CustomerID:	COCC45
CustomerPO:	150794
ProjectID:	

Attn: **Michael Baltrusaitis**
Cocciardi & Associates Inc.
1337 Senator Robert Mellow Drive
Jessup, PA 18434

Phone: (570) 291-0030
Fax: (570) 291-0035
Received: 07/11/16 9:15 AM

Project: **Scranton Lace / 150794**

Analytical Results

Client Sample Description 1 - 3 -1A ***Collected:*** 7/7/2016 ***Lab ID:*** *0001*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.82	mg/Kg	7/12/2016	AB	7/12/2016	EH
3550C/8082A	Aroclor-1221	ND	0.82	mg/Kg	7/12/2016	AB	7/12/2016	EH
3550C/8082A	Aroclor-1232	ND	0.82	mg/Kg	7/12/2016	AB	7/12/2016	EH
3550C/8082A	Aroclor-1242	ND	0.82	mg/Kg	7/12/2016	AB	7/12/2016	EH
3550C/8082A	Aroclor-1248	0.91	0.82	mg/Kg	7/12/2016	AB	7/12/2016	EH
3550C/8082A	Aroclor-1254	ND	0.82	mg/Kg	7/12/2016	AB	7/12/2016	EH
3550C/8082A	Aroclor-1260	ND	0.82	mg/Kg	7/12/2016	AB	7/12/2016	EH
3550C/8082A	Aroclor-1262	ND	0.82	mg/Kg	7/12/2016	AB	7/12/2016	EH
3550C/8082A	Aroclor-1268	ND	0.82	mg/Kg	7/12/2016	AB	7/12/2016	EH

Client Sample Description 1 - 3 - 2A ***Collected:*** 7/7/2016 ***Lab ID:*** *0002*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.82	mg/Kg	7/12/2016	AB	7/12/2016	EH
3550C/8082A	Aroclor-1221	ND	0.82	mg/Kg	7/12/2016	AB	7/12/2016	EH
3550C/8082A	Aroclor-1232	ND	0.82	mg/Kg	7/12/2016	AB	7/12/2016	EH
3550C/8082A	Aroclor-1242	ND	0.82	mg/Kg	7/12/2016	AB	7/12/2016	EH
3550C/8082A	Aroclor-1248	4.4	0.82	mg/Kg	7/12/2016	AB	7/12/2016	EH
3550C/8082A	Aroclor-1254	ND	0.82	mg/Kg	7/12/2016	AB	7/12/2016	EH
3550C/8082A	Aroclor-1260	ND	0.82	mg/Kg	7/12/2016	AB	7/12/2016	EH
3550C/8082A	Aroclor-1262	ND	0.82	mg/Kg	7/12/2016	AB	7/12/2016	EH
3550C/8082A	Aroclor-1268	ND	0.82	mg/Kg	7/12/2016	AB	7/12/2016	EH

Client Sample Description 1- 3 - 3A ***Collected:*** 7/7/2016 ***Lab ID:*** *0003*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.79	mg/Kg	7/12/2016	AB	7/12/2016	EH
3550C/8082A	Aroclor-1221	ND	0.79	mg/Kg	7/12/2016	AB	7/12/2016	EH
3550C/8082A	Aroclor-1232	ND	0.79	mg/Kg	7/12/2016	AB	7/12/2016	EH
3550C/8082A	Aroclor-1242	ND	0.79	mg/Kg	7/12/2016	AB	7/12/2016	EH
3550C/8082A	Aroclor-1248	1.4	0.79	mg/Kg	7/12/2016	AB	7/12/2016	EH
3550C/8082A	Aroclor-1254	ND	0.79	mg/Kg	7/12/2016	AB	7/12/2016	EH
3550C/8082A	Aroclor-1260	ND	0.79	mg/Kg	7/12/2016	AB	7/12/2016	EH
3550C/8082A	Aroclor-1262	ND	0.79	mg/Kg	7/12/2016	AB	7/12/2016	EH
3550C/8082A	Aroclor-1268	ND	0.79	mg/Kg	7/12/2016	AB	7/12/2016	EH

EMSL Analytical, Inc.
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http://www.EMSL.com EnvChemistry2@emsl.com

EMSL Order:	011604417
CustomerID:	COCC45
CustomerPO:	150794
ProjectID:	

Attn: **Michael Baltrusaitis**
Cocciardi & Associates Inc.
1337 Senator Robert Mellow Drive
Jessup, PA 18434

Phone: (570) 291-0030
Fax: (570) 291-0035
Received: 07/11/16 9:15 AM

Project: **Scranton Lace / 150794**

Analytical Results

Client Sample Description 1 - 3- 4A ***Collected:*** 7/7/2016 ***Lab ID:*** *0004*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.82	mg/Kg	7/12/2016	AB	7/12/2016	EH
3550C/8082A	Aroclor-1221	ND	0.82	mg/Kg	7/12/2016	AB	7/12/2016	EH
3550C/8082A	Aroclor-1232	ND	0.82	mg/Kg	7/12/2016	AB	7/12/2016	EH
3550C/8082A	Aroclor-1242	ND	0.82	mg/Kg	7/12/2016	AB	7/12/2016	EH
3550C/8082A	Aroclor-1248	0.97	0.82	mg/Kg	7/12/2016	AB	7/12/2016	EH
3550C/8082A	Aroclor-1254	ND	0.82	mg/Kg	7/12/2016	AB	7/12/2016	EH
3550C/8082A	Aroclor-1260	ND	0.82	mg/Kg	7/12/2016	AB	7/12/2016	EH
3550C/8082A	Aroclor-1262	ND	0.82	mg/Kg	7/12/2016	AB	7/12/2016	EH
3550C/8082A	Aroclor-1268	ND	0.82	mg/Kg	7/12/2016	AB	7/12/2016	EH

Client Sample Description 1 - 3 - 5A ***Collected:*** 7/7/2016 ***Lab ID:*** *0005*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.82	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1221	ND	0.82	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1232	ND	0.82	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1242	ND	0.82	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1248	1.5	0.82	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1254	ND	0.82	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1260	ND	0.82	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1262	ND	0.82	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1268	ND	0.82	mg/Kg	7/12/2016	AB	7/13/2016	EH

Client Sample Description 1 - 3 - 6A ***Collected:*** 7/7/2016 ***Lab ID:*** *0006*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.98	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1221	ND	0.98	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1232	ND	0.98	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1242	ND	0.98	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1248	ND	0.98	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1254	ND	0.98	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1260	ND	0.98	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1262	ND	0.98	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1268	ND	0.98	mg/Kg	7/12/2016	AB	7/13/2016	EH

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EMSL Order:	011604417
CustomerID:	COCC45
CustomerPO:	150794
ProjectID:	

Attn: **Michael Baltrusaitis**
Cocciardi & Associates Inc.
1337 Senator Robert Mellow Drive
Jessup, PA 18434

Phone: (570) 291-0030
Fax: (570) 291-0035
Received: 07/11/16 9:15 AM

Project: **Scranton Lace / 150794**

Analytical Results

Client Sample Description 1 - 3 - 7A ***Collected:*** 7/7/2016 ***Lab ID:*** *0007*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1221	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1232	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1242	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1248	1.6	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1254	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1260	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1262	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1268	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH

Client Sample Description 1 - 3 - 8A ***Collected:*** 7/7/2016 ***Lab ID:*** *0008*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.97	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1221	ND	0.97	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1232	ND	0.97	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1242	ND	0.97	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1248	1.4	0.97	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1254	ND	0.97	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1260	ND	0.97	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1262	ND	0.97	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1268	ND	0.97	mg/Kg	7/12/2016	AB	7/13/2016	EH

Client Sample Description 1 - 3 - 9A ***Collected:*** 7/7/2016 ***Lab ID:*** *0009*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1221	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1232	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1242	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1248	1.9	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1254	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1260	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1262	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1268	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH

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Project: **Scranton Lace / 150794**

Analytical Results

Client Sample Description 1 - 3 - 10A ***Collected:*** 7/7/2016 ***Lab ID:*** *0010*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.82	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1221	ND	0.82	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1232	ND	0.82	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1242	ND	0.82	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1248	1.0	0.82	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1254	ND	0.82	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1260	ND	0.82	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1262	ND	0.82	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1268	ND	0.82	mg/Kg	7/12/2016	AB	7/13/2016	EH

Client Sample Description 1 - 3 - 11A ***Collected:*** 7/7/2016 ***Lab ID:*** *0011*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.83	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1221	ND	0.83	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1232	ND	0.83	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1242	ND	0.83	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1248	1.1	0.83	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1254	ND	0.83	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1260	ND	0.83	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1262	ND	0.83	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1268	ND	0.83	mg/Kg	7/12/2016	AB	7/13/2016	EH

Client Sample Description 1 - 3 - 12A ***Collected:*** 7/7/2016 ***Lab ID:*** *0012*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.97	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1221	ND	0.97	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1232	ND	0.97	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1242	ND	0.97	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1248	ND	0.97	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1254	ND	0.97	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1260	ND	0.97	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1262	ND	0.97	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1268	ND	0.97	mg/Kg	7/12/2016	AB	7/13/2016	EH

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Analytical Results

Client Sample Description 1 - 3 - 13A ***Collected:*** 7/7/2016 ***Lab ID:*** *0013*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1221	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1232	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1242	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1248	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1254	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1260	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1262	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1268	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH

Client Sample Description 1 - 3 - 14A ***Collected:*** 7/7/2016 ***Lab ID:*** *0014*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1221	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1232	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1242	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1248	1.6	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1254	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1260	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1262	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1268	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH

Client Sample Description 1 - 3 - 15A ***Collected:*** 7/7/2016 ***Lab ID:*** *0015*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1221	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1232	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1242	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1248	2.6	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1254	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1260	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1262	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1268	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH

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Project: **Scranton Lace / 150794**

Analytical Results

Client Sample Description 1 - 3 - 16 A ***Collected:*** 7/7/2016 ***Lab ID:*** *0016*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.96	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1221	ND	0.96	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1232	ND	0.96	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1242	ND	0.96	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1248	3.7	0.96	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1254	ND	0.96	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1260	ND	0.96	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1262	ND	0.96	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1268	ND	0.96	mg/Kg	7/12/2016	AB	7/13/2016	EH

Client Sample Description 1 - 3 - 17A ***Collected:*** 7/7/2016 ***Lab ID:*** *0017*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1221	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1232	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1242	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1248	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1254	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1260	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1262	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1268	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH

Client Sample Description 1 - 3 - 18A ***Collected:*** 7/7/2016 ***Lab ID:*** *0018*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1221	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1232	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1242	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1248	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1254	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1260	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1262	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1268	ND	0.99	mg/Kg	7/12/2016	AB	7/13/2016	EH

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Analytical Results

Client Sample Description 1 - 3 - 19A ***Collected:*** 7/7/2016 ***Lab ID:*** *0019*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.97	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1221	ND	0.97	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1232	ND	0.97	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1242	ND	0.97	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1248	3.8	0.97	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1254	ND	0.97	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1260	ND	0.97	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1262	ND	0.97	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1268	ND	0.97	mg/Kg	7/12/2016	AB	7/13/2016	EH

Client Sample Description 1 - 3 - 20A ***Collected:*** 7/7/2016 ***Lab ID:*** *0020*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.81	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1221	ND	0.81	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1232	ND	0.81	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1242	ND	0.81	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1248	ND	0.81	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1254	ND	0.81	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1260	ND	0.81	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1262	ND	0.81	mg/Kg	7/12/2016	AB	7/13/2016	EH
3550C/8082A	Aroclor-1268	ND	0.81	mg/Kg	7/12/2016	AB	7/13/2016	EH

Client Sample Description 1 - 3 - 21A ***Collected:*** 7/7/2016 ***Lab ID:*** *0021*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.94	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1221	ND	0.94	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1232	ND	0.94	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1242	ND	0.94	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1248	ND	0.94	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1254	ND	0.94	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1260	ND	0.94	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1262	ND	0.94	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1268	ND	0.94	mg/Kg	7/13/2016	AB	7/14/2016	EH

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Analytical Results

Client Sample Description 1 - 3 - 22A ***Collected:*** 7/7/2016 ***Lab ID:*** *0022*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1221	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1232	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1242	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1248	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1254	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1260	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1262	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1268	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH

Client Sample Description 1 - 3 - 23A ***Collected:*** 7/7/2016 ***Lab ID:*** *0023*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1221	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1232	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1242	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1248	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1254	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1260	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1262	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1268	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH

Client Sample Description 1 - 3- 24A ***Collected:*** 7/7/2016 ***Lab ID:*** *0024*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1221	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1232	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1242	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1248	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1254	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1260	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1262	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1268	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH

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EMSL Order:	011604417
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Project: **Scranton Lace / 150794**

Analytical Results

Client Sample Description 1 - 3 -25A ***Collected:*** 7/7/2016 ***Lab ID:*** *0025*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.98	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1221	ND	0.98	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1232	ND	0.98	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1242	ND	0.98	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1248	ND	0.98	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1254	ND	0.98	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1260	ND	0.98	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1262	ND	0.98	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1268	ND	0.98	mg/Kg	7/13/2016	AB	7/14/2016	EH

Client Sample Description 1 - 4 - 1A ***Collected:*** 7/7/2016 ***Lab ID:*** *0026*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.79	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1221	ND	0.79	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1232	ND	0.79	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1242	ND	0.79	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1248	ND	0.79	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1254	ND	0.79	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1260	ND	0.79	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1262	ND	0.79	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1268	ND	0.79	mg/Kg	7/13/2016	AB	7/14/2016	EH

Client Sample Description 1 - 4 - 2A ***Collected:*** 7/7/2016 ***Lab ID:*** *0027*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1221	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1232	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1242	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1248	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1254	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1260	2.1	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1262	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1268	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH

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Project: **Scranton Lace / 150794**

Analytical Results

Client Sample Description 1 - 4 - 3A ***Collected:*** 7/7/2016 ***Lab ID:*** *0028*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.97	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1221	ND	0.97	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1232	ND	0.97	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1242	ND	0.97	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1248	ND	0.97	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1254	ND	0.97	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1260	ND	0.97	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1262	ND	0.97	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1268	ND	0.97	mg/Kg	7/13/2016	AB	7/14/2016	EH

Client Sample Description 1 - 4 - 4A ***Collected:*** 7/7/2016 ***Lab ID:*** *0029*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.82	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1221	ND	0.82	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1232	ND	0.82	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1242	ND	0.82	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1248	ND	0.82	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1254	ND	0.82	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1260	ND	0.82	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1262	ND	0.82	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1268	ND	0.82	mg/Kg	7/13/2016	AB	7/14/2016	EH

Client Sample Description 1 - 4 - 5A ***Collected:*** 7/7/2016 ***Lab ID:*** *0030*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.82	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1221	ND	0.82	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1232	ND	0.82	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1242	ND	0.82	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1248	ND	0.82	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1254	ND	0.82	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1260	ND	0.82	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1262	ND	0.82	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1268	ND	0.82	mg/Kg	7/13/2016	AB	7/14/2016	EH

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Project: **Scranton Lace / 150794**

Analytical Results

Client Sample Description 1 - 4 - 6A ***Collected:*** 7/7/2016 ***Lab ID:*** *0031*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.82	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1221	ND	0.82	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1232	ND	0.82	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1242	ND	0.82	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1248	0.82	0.82	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1254	ND	0.82	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1260	ND	0.82	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1262	ND	0.82	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1268	ND	0.82	mg/Kg	7/13/2016	AB	7/14/2016	EH

Client Sample Description 1 - 4 - 7A ***Collected:*** 7/7/2016 ***Lab ID:*** *0032*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1221	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1232	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1242	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1248	2.9	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1254	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1260	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1262	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1268	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH

Client Sample Description 1 - 4 - 8A ***Collected:*** 7/7/2016 ***Lab ID:*** *0033*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.98	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1221	ND	0.98	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1232	ND	0.98	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1242	ND	0.98	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1248	ND	0.98	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1254	ND	0.98	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1260	ND	0.98	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1262	ND	0.98	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1268	ND	0.98	mg/Kg	7/13/2016	AB	7/14/2016	EH

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Analytical Results

Client Sample Description 1 - 4 - 9A ***Collected:*** 7/7/2016 ***Lab ID:*** *0034*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1221	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1232	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1242	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1248	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1254	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1260	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1262	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1268	ND	0.99	mg/Kg	7/13/2016	AB	7/14/2016	EH

Client Sample Description 1 - 4 - 10A ***Collected:*** 7/7/2016 ***Lab ID:*** *0035*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.98	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1221	ND	0.98	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1232	ND	0.98	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1242	ND	0.98	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1248	1.3	0.98	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1254	ND	0.98	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1260	ND	0.98	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1262	ND	0.98	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1268	ND	0.98	mg/Kg	7/13/2016	AB	7/14/2016	EH

Client Sample Description 1 - 4 - 11A ***Collected:*** 7/7/2016 ***Lab ID:*** *0036*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.98	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1221	ND	0.98	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1232	ND	0.98	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1242	ND	0.98	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1248	4.4	0.98	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1254	ND	0.98	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1260	ND	0.98	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1262	ND	0.98	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1268	ND	0.98	mg/Kg	7/13/2016	AB	7/14/2016	EH

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Analytical Results

Client Sample Description 1 - 4 - 12A ***Collected:*** 7/7/2016 ***Lab ID:*** *0037*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.88	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1221	ND	0.88	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1232	ND	0.88	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1242	ND	0.88	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1248	ND	0.88	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1254	ND	0.88	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1260	ND	0.88	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1262	ND	0.88	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1268	ND	0.88	mg/Kg	7/13/2016	AB	7/14/2016	EH

Client Sample Description 1 - 4 - 13A ***Collected:*** 7/7/2016 ***Lab ID:*** *0038*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.85	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1221	ND	0.85	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1232	ND	0.85	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1242	ND	0.85	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1248	ND	0.85	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1254	ND	0.85	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1260	ND	0.85	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1262	ND	0.85	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1268	ND	0.85	mg/Kg	7/13/2016	AB	7/14/2016	EH

Client Sample Description 1 - 4 - 14A ***Collected:*** 7/7/2016 ***Lab ID:*** *0039*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.97	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1221	ND	0.97	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1232	ND	0.97	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1242	ND	0.97	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1248	ND	0.97	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1254	ND	0.97	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1260	ND	0.97	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1262	ND	0.97	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1268	ND	0.97	mg/Kg	7/13/2016	AB	7/14/2016	EH

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Analytical Results

Client Sample Description 1 - 4 - 15A ***Collected:*** 7/7/2016 ***Lab ID:*** *0040*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.93	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1221	ND	0.93	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1232	ND	0.93	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1242	ND	0.93	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1248	ND	0.93	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1254	ND	0.93	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1260	ND	0.93	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1262	ND	0.93	mg/Kg	7/13/2016	AB	7/14/2016	EH
3550C/8082A	Aroclor-1268	ND	0.93	mg/Kg	7/13/2016	AB	7/14/2016	EH

Client Sample Description 1 - 4 - 16A ***Collected:*** 7/7/2016 ***Lab ID:*** *0041*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.82	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1221	ND	0.82	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1232	ND	0.82	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1242	ND	0.82	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1248	ND	0.82	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1254	ND	0.82	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1260	ND	0.82	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1262	ND	0.82	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1268	ND	0.82	mg/Kg	7/14/2016	AB	7/15/2016	EH

Client Sample Description 1 - 4 - 17A ***Collected:*** 7/7/2016 ***Lab ID:*** *0042*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.81	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1221	ND	0.81	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1232	ND	0.81	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1242	ND	0.81	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1248	1.2	0.81	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1254	ND	0.81	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1260	ND	0.81	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1262	ND	0.81	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1268	ND	0.81	mg/Kg	7/14/2016	AB	7/15/2016	EH

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Project: **Scranton Lace / 150794**

Analytical Results

Client Sample Description 1 - 4 -18A ***Collected:*** 7/7/2016 ***Lab ID:*** *0043*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.82	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1221	ND	0.82	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1232	ND	0.82	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1242	ND	0.82	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1248	ND	0.82	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1254	ND	0.82	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1260	ND	0.82	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1262	ND	0.82	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1268	ND	0.82	mg/Kg	7/14/2016	AB	7/15/2016	EH

Client Sample Description 1 - 4 - 19A ***Collected:*** 7/7/2016 ***Lab ID:*** *0044*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.79	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1221	ND	0.79	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1232	ND	0.79	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1242	ND	0.79	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1248	2.8	0.79	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1254	ND	0.79	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1260	ND	0.79	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1262	ND	0.79	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1268	ND	0.79	mg/Kg	7/14/2016	AB	7/15/2016	EH

Client Sample Description 1 - 4 - 20A ***Collected:*** 7/7/2016 ***Lab ID:*** *0045*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.98	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1221	ND	0.98	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1232	ND	0.98	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1242	ND	0.98	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1248	ND	0.98	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1254	ND	0.98	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1260	ND	0.98	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1262	ND	0.98	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1268	ND	0.98	mg/Kg	7/14/2016	AB	7/15/2016	EH

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Analytical Results

Client Sample Description 1 - 4 - 21A ***Collected:*** 7/7/2016 ***Lab ID:*** *0046*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.98	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1221	ND	0.98	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1232	ND	0.98	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1242	ND	0.98	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1248	ND	0.98	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1254	ND	0.98	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1260	ND	0.98	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1262	ND	0.98	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1268	ND	0.98	mg/Kg	7/14/2016	AB	7/15/2016	EH

Client Sample Description 1 - 4 - 22A ***Collected:*** 7/7/2016 ***Lab ID:*** *0047*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.99	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1221	ND	0.99	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1232	ND	0.99	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1242	ND	0.99	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1248	ND	0.99	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1254	ND	0.99	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1260	ND	0.99	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1262	ND	0.99	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1268	ND	0.99	mg/Kg	7/14/2016	AB	7/15/2016	EH

Client Sample Description 1 - 4 - 23A ***Collected:*** 7/7/2016 ***Lab ID:*** *0048*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.98	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1221	ND	0.98	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1232	ND	0.98	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1242	ND	0.98	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1248	ND	0.98	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1254	ND	0.98	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1260	ND	0.98	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1262	ND	0.98	mg/Kg	7/14/2016	AB	7/15/2016	EH
3550C/8082A	Aroclor-1268	ND	0.98	mg/Kg	7/14/2016	AB	7/15/2016	EH

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Analytical Results

Client Sample Description 1 - 4 - 24A ***Collected:*** 7/7/2016 ***Lab ID:*** *0049*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.95	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1221	ND	0.95	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1232	ND	0.95	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1242	ND	0.95	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1248	ND	0.95	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1254	ND	0.95	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1260	ND	0.95	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1262	ND	0.95	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1268	ND	0.95	mg/Kg	7/14/2016	AB	7/16/2016	EH

Client Sample Description 1 - 4 - 25A ***Collected:*** 7/7/2016 ***Lab ID:*** *0050*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.98	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1221	ND	0.98	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1232	ND	0.98	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1242	ND	0.98	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1248	2.3	0.98	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1254	ND	0.98	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1260	ND	0.98	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1262	ND	0.98	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1268	ND	0.98	mg/Kg	7/14/2016	AB	7/16/2016	EH

Client Sample Description 1 - 4 - 26A ***Collected:*** 7/7/2016 ***Lab ID:*** *0051*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.99	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1221	ND	0.99	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1232	ND	0.99	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1242	ND	0.99	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1248	ND	0.99	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1254	ND	0.99	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1260	ND	0.99	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1262	ND	0.99	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1268	ND	0.99	mg/Kg	7/14/2016	AB	7/16/2016	EH

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Analytical Results

Client Sample Description 1 - 4 - 27A ***Collected:*** 7/7/2016 ***Lab ID:*** *0052*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	1.0	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1221	ND	1.0	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1232	ND	1.0	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1242	ND	1.0	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1248	ND	1.0	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1254	ND	1.0	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1260	ND	1.0	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1262	ND	1.0	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1268	ND	1.0	mg/Kg	7/14/2016	AB	7/16/2016	EH

Client Sample Description 1 - 4 - 28A ***Collected:*** 7/7/2016 ***Lab ID:*** *0053*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.82	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1221	ND	0.82	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1232	ND	0.82	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1242	ND	0.82	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1248	1.8	0.82	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1254	ND	0.82	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1260	1.8	0.82	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1262	ND	0.82	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1268	ND	0.82	mg/Kg	7/14/2016	AB	7/16/2016	EH

Client Sample Description 1 - 4 - 29A ***Collected:*** 7/7/2016 ***Lab ID:*** *0054*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.97	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1221	ND	0.97	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1232	ND	0.97	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1242	ND	0.97	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1248	1.8	0.97	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1254	ND	0.97	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1260	ND	0.97	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1262	ND	0.97	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1268	ND	0.97	mg/Kg	7/14/2016	AB	7/16/2016	EH

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Analytical Results

Client Sample Description 1 - 4 - 30A ***Collected:*** 7/7/2016 ***Lab ID:*** *0055*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.93	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1221	ND	0.93	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1232	ND	0.93	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1242	ND	0.93	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1248	1.3	0.93	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1254	ND	0.93	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1260	ND	0.93	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1262	ND	0.93	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1268	ND	0.93	mg/Kg	7/14/2016	AB	7/16/2016	EH

Client Sample Description 1 - 4 - 31A ***Collected:*** 7/7/2016 ***Lab ID:*** *0056*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.79	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1221	ND	0.79	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1232	ND	0.79	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1242	ND	0.79	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1248	1.3	0.79	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1254	ND	0.79	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1260	ND	0.79	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1262	ND	0.79	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1268	ND	0.79	mg/Kg	7/14/2016	AB	7/16/2016	EH

Client Sample Description 1 - 4 - 32A ***Collected:*** 7/7/2016 ***Lab ID:*** *0057*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.82	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1221	ND	0.82	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1232	ND	0.82	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1242	ND	0.82	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1248	ND	0.82	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1254	ND	0.82	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1260	ND	0.82	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1262	ND	0.82	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1268	ND	0.82	mg/Kg	7/14/2016	AB	7/16/2016	EH

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Analytical Results

Client Sample Description 1 - 4 - 33A ***Collected:*** 7/7/2016 ***Lab ID:*** *0058*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.79	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1221	ND	0.79	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1232	ND	0.79	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1242	ND	0.79	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1248	ND	0.79	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1254	ND	0.79	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1260	ND	0.79	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1262	ND	0.79	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1268	ND	0.79	mg/Kg	7/14/2016	AB	7/16/2016	EH

Client Sample Description 1 - 4 -34A ***Collected:*** 7/7/2016 ***Lab ID:*** *0059*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.94	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1221	ND	0.94	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1232	ND	0.94	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1242	ND	0.94	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1248	1.1	0.94	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1254	ND	0.94	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1260	ND	0.94	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1262	ND	0.94	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1268	ND	0.94	mg/Kg	7/14/2016	AB	7/16/2016	EH

Client Sample Description 1 - 4 - 35A ***Collected:*** 7/7/2016 ***Lab ID:*** *0060*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.82	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1221	ND	0.82	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1232	ND	0.82	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1242	ND	0.82	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1248	1.8	0.82	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1254	ND	0.82	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1260	0.92	0.82	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1262	ND	0.82	mg/Kg	7/14/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1268	ND	0.82	mg/Kg	7/14/2016	AB	7/16/2016	EH

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Analytical Results

Client Sample Description 1 - 4 - 36A ***Collected:*** 7/7/2016 ***Lab ID:*** *0061*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.94	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1221	ND	0.94	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1232	ND	0.94	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1242	ND	0.94	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1248	ND	0.94	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1254	ND	0.94	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1260	ND	0.94	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1262	ND	0.94	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1268	ND	0.94	mg/Kg	7/15/2016	AB	7/16/2016	EH

Client Sample Description 1 - 4 - 37A ***Collected:*** 7/7/2016 ***Lab ID:*** *0062*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.86	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1221	ND	0.86	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1232	ND	0.86	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1242	ND	0.86	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1248	1.2	0.86	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1254	ND	0.86	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1260	ND	0.86	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1262	ND	0.86	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1268	ND	0.86	mg/Kg	7/15/2016	AB	7/16/2016	EH

Client Sample Description 1 - 4 - 38A ***Collected:*** 7/7/2016 ***Lab ID:*** *0063*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.98	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1221	ND	0.98	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1232	ND	0.98	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1242	ND	0.98	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1248	ND	0.98	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1254	ND	0.98	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1260	ND	0.98	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1262	ND	0.98	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1268	ND	0.98	mg/Kg	7/15/2016	AB	7/16/2016	EH

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Analytical Results

Client Sample Description 1 - 4 - 39A ***Collected:*** 7/7/2016 ***Lab ID:*** *0064*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.79	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1221	ND	0.79	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1232	ND	0.79	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1242	ND	0.79	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1248	2.6	0.79	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1254	ND	0.79	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1260	1.8	0.79	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1262	ND	0.79	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1268	ND	0.79	mg/Kg	7/15/2016	AB	7/16/2016	EH

Client Sample Description 1 - 4 - 40A ***Collected:*** 7/7/2016 ***Lab ID:*** *0065*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.81	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1221	ND	0.81	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1232	ND	0.81	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1242	ND	0.81	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1248	2.2	0.81	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1254	ND	0.81	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1260	1.4	0.81	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1262	ND	0.81	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1268	ND	0.81	mg/Kg	7/15/2016	AB	7/16/2016	EH

Client Sample Description 1 - 4 - 41A ***Collected:*** 7/7/2016 ***Lab ID:*** *0066*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1221	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1232	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1242	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1248	2.2	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1254	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1260	0.96	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1262	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1268	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH

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Analytical Results

Client Sample Description 1 - 4 - 42A ***Collected:*** 7/7/2016 ***Lab ID:*** *0067*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.79	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1221	ND	0.79	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1232	ND	0.79	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1242	ND	0.79	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1248	1.4	0.79	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1254	ND	0.79	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1260	1.3	0.79	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1262	ND	0.79	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1268	ND	0.79	mg/Kg	7/15/2016	AB	7/16/2016	EH

Client Sample Description 1 - 4 - 43A ***Collected:*** 7/7/2016 ***Lab ID:*** *0068*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.81	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1221	ND	0.81	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1232	ND	0.81	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1242	ND	0.81	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1248	1.1	0.81	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1254	ND	0.81	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1260	ND	0.81	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1262	ND	0.81	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1268	ND	0.81	mg/Kg	7/15/2016	AB	7/16/2016	EH

Client Sample Description 1 - 4- 44A ***Collected:*** 7/7/2016 ***Lab ID:*** *0069*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1221	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1232	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1242	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1248	1.4	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1254	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1260	1.0	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1262	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1268	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH

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Analytical Results

Client Sample Description 1 - 4 - 45A ***Collected:*** 7/7/2016 ***Lab ID:*** *0070*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1221	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1232	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1242	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1248	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1254	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1260	1.6	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1262	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1268	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH

Client Sample Description 1 - 4 -46A ***Collected:*** 7/7/2016 ***Lab ID:*** *0071*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1221	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1232	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1242	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1248	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1254	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1260	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1262	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1268	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH

Client Sample Description 1 - 4 - 47A ***Collected:*** 7/7/2016 ***Lab ID:*** *0072*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1221	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1232	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1242	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1248	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1254	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1260	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1262	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1268	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH

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EMSL Order:	011604417
CustomerID:	COCC45
CustomerPO:	150794
ProjectID:	

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Project: **Scranton Lace / 150794**

Analytical Results

Client Sample Description 1 - 4 - 48A ***Collected:*** 7/7/2016 ***Lab ID:*** *0073*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.79	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1221	ND	0.79	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1232	ND	0.79	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1242	ND	0.79	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1248	1.9	0.79	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1254	ND	0.79	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1260	0.95	0.79	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1262	ND	0.79	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1268	ND	0.79	mg/Kg	7/15/2016	AB	7/16/2016	EH

Client Sample Description 1 - 4 - 49A ***Collected:*** 7/7/2016 ***Lab ID:*** *0074*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.81	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1221	ND	0.81	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1232	ND	0.81	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1242	ND	0.81	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1248	ND	0.81	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1254	ND	0.81	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1260	ND	0.81	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1262	ND	0.81	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1268	ND	0.81	mg/Kg	7/15/2016	AB	7/16/2016	EH

Client Sample Description 1 - 4 - 50A ***Collected:*** 7/7/2016 ***Lab ID:*** *0075*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1221	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1232	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1242	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1248	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1254	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1260	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1262	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1268	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH

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Project: **Scranton Lace / 150794**

Analytical Results

Client Sample Description 1 - 4 - 51A ***Collected:*** 7/7/2016 ***Lab ID:*** *0076*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.81	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1221	ND	0.81	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1232	ND	0.81	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1242	ND	0.81	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1248	ND	0.81	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1254	ND	0.81	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1260	ND	0.81	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1262	ND	0.81	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1268	ND	0.81	mg/Kg	7/15/2016	AB	7/16/2016	EH

Client Sample Description 1 - 4 -52A ***Collected:*** 7/7/2016 ***Lab ID:*** *0077*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1221	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1232	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1242	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1248	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1254	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1260	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1262	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1268	ND	0.82	mg/Kg	7/15/2016	AB	7/16/2016	EH

Client Sample Description 1 - 4 - 53A ***Collected:*** 7/7/2016 ***Lab ID:*** *0078*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.81	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1221	ND	0.81	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1232	ND	0.81	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1242	ND	0.81	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1248	ND	0.81	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1254	ND	0.81	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1260	ND	0.81	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1262	ND	0.81	mg/Kg	7/15/2016	AB	7/16/2016	EH
3550C/8082A	Aroclor-1268	ND	0.81	mg/Kg	7/15/2016	AB	7/16/2016	EH

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Project: **Scranton Lace / 150794**

Analytical Results

Client Sample Description 1 - 4 - 54A ***Collected:*** 7/7/2016 ***Lab ID:*** *0079*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.82	mg/Kg	7/15/2016	AB	7/17/2016	EH
3550C/8082A	Aroclor-1221	ND	0.82	mg/Kg	7/15/2016	AB	7/17/2016	EH
3550C/8082A	Aroclor-1232	ND	0.82	mg/Kg	7/15/2016	AB	7/17/2016	EH
3550C/8082A	Aroclor-1242	ND	0.82	mg/Kg	7/15/2016	AB	7/17/2016	EH
3550C/8082A	Aroclor-1248	ND	0.82	mg/Kg	7/15/2016	AB	7/17/2016	EH
3550C/8082A	Aroclor-1254	ND	0.82	mg/Kg	7/15/2016	AB	7/17/2016	EH
3550C/8082A	Aroclor-1260	ND	0.82	mg/Kg	7/15/2016	AB	7/17/2016	EH
3550C/8082A	Aroclor-1262	ND	0.82	mg/Kg	7/15/2016	AB	7/17/2016	EH
3550C/8082A	Aroclor-1268	ND	0.82	mg/Kg	7/15/2016	AB	7/17/2016	EH

Client Sample Description 1 - 4 - 55A ***Collected:*** 7/7/2016 ***Lab ID:*** *0080*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.96	mg/Kg	7/15/2016	AB	7/17/2016	EH
3550C/8082A	Aroclor-1221	ND	0.96	mg/Kg	7/15/2016	AB	7/17/2016	EH
3550C/8082A	Aroclor-1232	ND	0.96	mg/Kg	7/15/2016	AB	7/17/2016	EH
3550C/8082A	Aroclor-1242	ND	0.96	mg/Kg	7/15/2016	AB	7/17/2016	EH
3550C/8082A	Aroclor-1248	ND	0.96	mg/Kg	7/15/2016	AB	7/17/2016	EH
3550C/8082A	Aroclor-1254	ND	0.96	mg/Kg	7/15/2016	AB	7/17/2016	EH
3550C/8082A	Aroclor-1260	ND	0.96	mg/Kg	7/15/2016	AB	7/17/2016	EH
3550C/8082A	Aroclor-1262	ND	0.96	mg/Kg	7/15/2016	AB	7/17/2016	EH
3550C/8082A	Aroclor-1268	ND	0.96	mg/Kg	7/15/2016	AB	7/17/2016	EH

Client Sample Description 1 - 4 - 56A ***Collected:*** 7/7/2016 ***Lab ID:*** *0081*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.91	mg/Kg	7/21/2016	AB	7/21/2016	EH
3550C/8082A	Aroclor-1221	ND	0.91	mg/Kg	7/21/2016	AB	7/21/2016	EH
3550C/8082A	Aroclor-1232	ND	0.91	mg/Kg	7/21/2016	AB	7/21/2016	EH
3550C/8082A	Aroclor-1242	ND	0.91	mg/Kg	7/21/2016	AB	7/21/2016	EH
3550C/8082A	Aroclor-1248	ND	0.91	mg/Kg	7/21/2016	AB	7/21/2016	EH
3550C/8082A	Aroclor-1254	ND	0.91	mg/Kg	7/21/2016	AB	7/21/2016	EH
3550C/8082A	Aroclor-1260	ND	0.91	mg/Kg	7/21/2016	AB	7/21/2016	EH
3550C/8082A	Aroclor-1262	ND	0.91	mg/Kg	7/21/2016	AB	7/21/2016	EH
3550C/8082A	Aroclor-1268	ND	0.91	mg/Kg	7/21/2016	AB	7/21/2016	EH

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Project: **Scranton Lace / 150794**

Analytical Results

Client Sample Description 1 - 4 - 57A ***Collected:*** 7/7/2016 ***Lab ID:*** *0082*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.82	mg/Kg	7/21/2016	AB	7/21/2016	EH
3550C/8082A	Aroclor-1221	ND	0.82	mg/Kg	7/21/2016	AB	7/21/2016	EH
3550C/8082A	Aroclor-1232	ND	0.82	mg/Kg	7/21/2016	AB	7/21/2016	EH
3550C/8082A	Aroclor-1242	ND	0.82	mg/Kg	7/21/2016	AB	7/21/2016	EH
3550C/8082A	Aroclor-1248	ND	0.82	mg/Kg	7/21/2016	AB	7/21/2016	EH
3550C/8082A	Aroclor-1254	ND	0.82	mg/Kg	7/21/2016	AB	7/21/2016	EH
3550C/8082A	Aroclor-1260	ND	0.82	mg/Kg	7/21/2016	AB	7/21/2016	EH
3550C/8082A	Aroclor-1262	ND	0.82	mg/Kg	7/21/2016	AB	7/21/2016	EH
3550C/8082A	Aroclor-1268	ND	0.82	mg/Kg	7/21/2016	AB	7/21/2016	EH

Client Sample Description 1 - 4 - 58A ***Collected:*** 7/7/2016 ***Lab ID:*** *0083*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.97	mg/Kg	7/21/2016	AB	7/21/2016	EH
3550C/8082A	Aroclor-1221	ND	0.97	mg/Kg	7/21/2016	AB	7/21/2016	EH
3550C/8082A	Aroclor-1232	ND	0.97	mg/Kg	7/21/2016	AB	7/21/2016	EH
3550C/8082A	Aroclor-1242	ND	0.97	mg/Kg	7/21/2016	AB	7/21/2016	EH
3550C/8082A	Aroclor-1248	ND	0.97	mg/Kg	7/21/2016	AB	7/21/2016	EH
3550C/8082A	Aroclor-1254	ND	0.97	mg/Kg	7/21/2016	AB	7/21/2016	EH
3550C/8082A	Aroclor-1260	ND	0.97	mg/Kg	7/21/2016	AB	7/21/2016	EH
3550C/8082A	Aroclor-1262	ND	0.97	mg/Kg	7/21/2016	AB	7/21/2016	EH
3550C/8082A	Aroclor-1268	ND	0.97	mg/Kg	7/21/2016	AB	7/21/2016	EH

Client Sample Description 1 - 4 - 59A ***Collected:*** 7/7/2016 ***Lab ID:*** *0084*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.82	mg/Kg	7/21/2016	AB	7/21/2016	EH
3550C/8082A	Aroclor-1221	ND	0.82	mg/Kg	7/21/2016	AB	7/21/2016	EH
3550C/8082A	Aroclor-1232	ND	0.82	mg/Kg	7/21/2016	AB	7/21/2016	EH
3550C/8082A	Aroclor-1242	ND	0.82	mg/Kg	7/21/2016	AB	7/21/2016	EH
3550C/8082A	Aroclor-1248	ND	0.82	mg/Kg	7/21/2016	AB	7/21/2016	EH
3550C/8082A	Aroclor-1254	ND	0.82	mg/Kg	7/21/2016	AB	7/21/2016	EH
3550C/8082A	Aroclor-1260	ND	0.82	mg/Kg	7/21/2016	AB	7/21/2016	EH
3550C/8082A	Aroclor-1262	ND	0.82	mg/Kg	7/21/2016	AB	7/21/2016	EH
3550C/8082A	Aroclor-1268	ND	0.82	mg/Kg	7/21/2016	AB	7/21/2016	EH

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Project: **Scranton Lace / 150794**

Analytical Results

Client Sample Description 1 - 4 - 60A ***Collected:*** 7/7/2016 ***Lab ID:*** *0085*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date*	*Analyst*	*Analysis Date*	*Analyst*
3550C/8082A	Aroclor-1016	ND	0.87	mg/Kg	7/21/2016	AB	7/21/2016	EH
3550C/8082A	Aroclor-1221	ND	0.87	mg/Kg	7/21/2016	AB	7/21/2016	EH
3550C/8082A	Aroclor-1232	ND	0.87	mg/Kg	7/21/2016	AB	7/21/2016	EH
3550C/8082A	Aroclor-1242	ND	0.87	mg/Kg	7/21/2016	AB	7/21/2016	EH
3550C/8082A	Aroclor-1248	ND	0.87	mg/Kg	7/21/2016	AB	7/21/2016	EH
3550C/8082A	Aroclor-1254	ND	0.87	mg/Kg	7/21/2016	AB	7/21/2016	EH
3550C/8082A	Aroclor-1260	ND	0.87	mg/Kg	7/21/2016	AB	7/21/2016	EH
3550C/8082A	Aroclor-1262	ND	0.87	mg/Kg	7/21/2016	AB	7/21/2016	EH
3550C/8082A	Aroclor-1268	ND	0.87	mg/Kg	7/21/2016	AB	7/21/2016	EH

Client Sample Description 1 - 13 - 21A ***Collected:*** 7/7/2016 ***Lab ID:*** *0086*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date*	*Analyst*	*Analysis Date*	*Analyst*
3550C/8082A	Aroclor-1016	ND	0.99	mg/Kg	7/21/2016	AB	7/21/2016	EH
3550C/8082A	Aroclor-1221	ND	0.99	mg/Kg	7/21/2016	AB	7/21/2016	EH
3550C/8082A	Aroclor-1232	ND	0.99	mg/Kg	7/21/2016	AB	7/21/2016	EH
3550C/8082A	Aroclor-1242	ND	0.99	mg/Kg	7/21/2016	AB	7/21/2016	EH
3550C/8082A	Aroclor-1248	ND	0.99	mg/Kg	7/21/2016	AB	7/21/2016	EH
3550C/8082A	Aroclor-1254	230	25	mg/Kg	7/21/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1260	ND	25	mg/Kg	7/21/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1262	ND	25	mg/Kg	7/21/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1268	ND	25	mg/Kg	7/21/2016	AB	7/22/2016	EH

Definitions:

ND - indicates that the analyte was not detected at the reporting limit
RL - Reporting Limit (Analytical)

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Environmental Chemistry Chain of Custody

EMSL Order Number (*Lab Use Only*): 011604840

Report To Contact Name: Mike Baltrusaitis		Bill To Company: -Same-	
Company Name: Cocciardi and Associates, Inc.		Attention To:	
Street: 1337 Veterans Memorial Drive		Street:	
City: Jessup	State/Province: PA	Zip Code: 18434	City:	State/Province:	Zip Code:
Phone : 5702910030	Fax : 5702910035	Phone:	Fax:
Project Name: Scranton Lace		U.S. State where Samples Collected: PA	
Number of Samples in Shipment: 32	Date of Shipment: 7-27-16	Purchase Order: 150794	Sampled By (Signature):
Please Provide results: ☐ FAX ☑ E-mail ☐ Mail		Email Results To: mbaltrusaitis@cocciardi.com	
Standard Turnaround Time: ☑ 2 Weeks	The following TAT's are subject to lab approval: ☐ 1 Week ☐ 4 Days ☐ 3 Days ☐ 2 Days ☐ 1 Day		

Failure to complete will hinder processing of samples

	Client Sample ID	Comp	Grab	Date/Time	Matrix (W=Water S=Soil A=Air SL=Sludge O= Other)	Preservative (1=HCL 2=HNO3 3=H2SO4 4=ICE 5=Other)	PCB								Comments
1	1-6A-9A		✓	7-26-16	O	4	✓								
2	1-6A-10A		✓	7-26-16	O	4	✓								
3	1-6A-11A		✓	7-26-16	O	4	✓								
4	1-6A-12A		✓	7-26-16	O	4	✓								
5	1-6A-14A		✓	7-26-16	O	4	✓								

Released By (Signature)	Date & Time	Received By	Date & Time
	7-27-16 16:00	[illegible] 4c 9:30	7/28/16

Please indicate reporting requirements: ☒ Results Only ☐ Results and QC ☐ Reduced Deliverables ☐ Disk Deliverable ☐ Other _____

Instructions or Comments:

Fx 7951 6290 7282

OrderID: 011604840

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

EMSL Analytical, Inc.
200 Route 130 North

Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
FAX: (856) 786-5974

Environmental Chemistry Chain of Custody

EMSL Order Number (*Lab Use Only*): 011604840

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

	Failure to complete will hinder processing of samples				Matrix	Preservative	List Test(s)							
	Client Sample ID	Comp	Grab	Date/Time	W=Water S=Soil A=Air SL=Sludge O= Other	1=HCL 2=HNO3 3=H2SO4 4=ICE 5=Other	P C B							Comments
6	1-6A-15A		✓	7-26-16	O	4	✓							
7	1-6A-16A		✓	7-26-16	O	4	✓							
8	1-6A-17A		✓	7-26-16	O	4	✓							
9	1-6A-19A		✓	7-26-16	O	4	✓							
10	1-6A-20A		✓	7-26-16	O	4	✓							
11	1-6A-21A		✓	7-26-16	O	4	✓							
12	1-6A-22A		✓	7-26-16	O	4	✓							
13	1-6A-24A		✓	7-26-16	O	4	✓							
14	1-6A-25A		✓	7-26-16	O	4	✓							
15	1-6A-26A		✓	7-26-16	O	4	✓							
16	1-6A-27A		✓	7-26-16	O	4	✓							
17	1-6A-28A		✓	7-26-16	O	4	✓							
18	1-6A-29A		✓	7-26-16	O	4	✓							
19	1-6A-30A		✓	7-26-16	O	4	✓							
20	1-6A-31A		✓	7-26-16	O	4	✓							
21	1-6A-32A		✓	7-26-16	O	4	✓							
22	1-6A-33A		✓	7-26-16	O	4	✓							

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FAX: (856) 786-5974

Environmental Chemistry Chain of Custody

EMSL Order Number (*Lab Use Only*): 011604840

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

	Failure to complete will hinder processing of samples				Matrix	Preservative	List Test(s)							
	Client Sample ID	Comp	Grab	Date/Time	W=Water S=Soil A=Air SL=Sludge O= Other	1=HCL 2=HNO3 3=H2SO4 4=ICE 5=Other	PCB							Comments
23	1-6A-34A		✓	7-26-16	O	4	✓							
24	1-6A-35A		✓	7-26-16	O	4	✓							
25	1-8-AA	✓		7-26-16	O	4	✓							Locations 1,2,3,4,7
26	1-8-BA	✓		7-26-16	O	4	✓							Locations 15,16,18,31, 33,34
27	1-8-CA	✓		7-26-16	O	4	✓							Locations 12,13,14,19, 20,21
28	1-8-DA	✓		7-26-16	O	4	✓							Locations 28,29,30, 36,37
29	1-8-EA	✓		7-26-16	O	4	✓							Locations 11,22,26, 27,38,39
30	1-8-FA	✓		7-26-16	O	4	✓							Locations 42,43,44,45, 46,47,48
31	1-8-GA	✓		7-26-16	O	4	✓							Locations 49,50,51,52, 53,54,55
32	13-P1	✓		7-26-16	O	4	✓							Building 13 Wall Paint

EMSL Analytical, Inc.
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Phone: (856) 303-2500 Fax: (856) 858-4571 Email: EnvChemistry2@emsl.com

Attn: **Mike Baltrusaitis**
Cocciardi & Associates Inc.
1337 Veterans Memorial Drive
Jessup, PA 18434

Phone:
Fax: (570) 963-0242

8/1/2016

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 7/20/2016. The results are tabulated on the attached data pages for the following client designated project:

Scranton Lace / 150794

The reference number for these samples is EMSL Order #011604646. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Approved By:

Phillip Worby, Chemistry Laboratory Manager

The test results contained within this report meet the requirements of NELAP and/or the specific certification program that is applicable, unless otherwise noted.
NELAP Certifications: NJ 03036, NY 10872, PA 68-00367

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the NELAP, unless specifically indicated. All results for soil samples are reported on a dry weight basis, unless otherwise noted. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

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EMSL Order:	011604646
CustomerID:	COCC45
CustomerPO:	150794
ProjectID:	

Attn: **Mike Baltrusaitis**
Cocciardi & Associates Inc.
1337 Veterans Memorial Drive
Jessup, PA 18434

Phone:
Fax: (570) 963-0242
Received: 07/20/16 9:30 AM

Project: **Scranton Lace / 150794**

Analytical Results

Client Sample Description 1-6A-1A ***Collected:*** 7/15/2016 ***Lab ID:*** *0001*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.97	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1221	ND	0.97	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1232	ND	0.97	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1242	ND	0.97	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1248	3.2	0.97	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1254	ND	0.97	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1260	ND	0.97	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1262	ND	0.97	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1268	ND	0.97	mg/Kg	7/22/2016	AB	7/22/2016	EH

Client Sample Description 1-6A-2A ***Collected:*** 7/15/2016 ***Lab ID:*** *0002*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.99	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1221	ND	0.99	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1232	ND	0.99	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1242	ND	0.99	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1248	5.0	0.99	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1254	ND	0.99	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1260	ND	0.99	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1262	ND	0.99	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1268	ND	0.99	mg/Kg	7/22/2016	AB	7/22/2016	EH

Client Sample Description 1-6A-3A ***Collected:*** 7/15/2016 ***Lab ID:*** *0003*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	2.0	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1221	ND	2.0	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1232	ND	2.0	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1242	ND	2.0	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1248	36	2.0	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1254	ND	2.0	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1260	ND	2.0	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1262	ND	2.0	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1268	ND	2.0	mg/Kg	7/22/2016	AB	7/27/2016	EH

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EMSL Order:	011604646
CustomerID:	COCC45
CustomerPO:	150794
ProjectID:	

Attn: **Mike Baltrusaitis**
Cocciardi & Associates Inc.
1337 Veterans Memorial Drive
Jessup, PA 18434

Phone:
Fax: (570) 963-0242
Received: 07/20/16 9:30 AM

Project: **Scranton Lace / 150794**

Analytical Results

Client Sample Description 1-6A-4A ***Collected:*** 7/15/2016 ***Lab ID:*** *0004*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.97	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1221	ND	0.97	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1232	ND	0.97	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1242	ND	0.97	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1248	11	0.97	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1254	ND	0.97	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1260	ND	0.97	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1262	ND	0.97	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1268	ND	0.97	mg/Kg	7/22/2016	AB	7/22/2016	EH

Client Sample Description 1-6A-5A ***Collected:*** 7/15/2016 ***Lab ID:*** *0005*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.97	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1221	ND	0.97	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1232	ND	0.97	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1242	ND	0.97	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1248	5.8	0.97	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1254	ND	0.97	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1260	ND	0.97	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1262	ND	0.97	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1268	ND	0.97	mg/Kg	7/22/2016	AB	7/22/2016	EH

Client Sample Description 1-6A-6A ***Collected:*** 7/15/2016 ***Lab ID:*** *0006*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.98	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1221	ND	0.98	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1232	ND	0.98	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1242	ND	0.98	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1248	4.7	0.98	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1254	ND	0.98	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1260	ND	0.98	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1262	ND	0.98	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1268	ND	0.98	mg/Kg	7/22/2016	AB	7/22/2016	EH

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EMSL Order:	011604646
CustomerID:	COCC45
CustomerPO:	150794
ProjectID:	

Attn: **Mike Baltrusaitis**
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Jessup, PA 18434

Phone:
Fax: (570) 963-0242
Received: 07/20/16 9:30 AM

Project: **Scranton Lace / 150794**

Analytical Results

Client Sample Description 1-6A-7A ***Collected:*** 7/15/2016 ***Lab ID:*** *0007*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.99	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1221	ND	0.99	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1232	ND	0.99	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1242	ND	0.99	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1248	3.6	0.99	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1254	ND	0.99	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1260	ND	0.99	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1262	ND	0.99	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1268	ND	0.99	mg/Kg	7/22/2016	AB	7/22/2016	EH

Client Sample Description 1-6A-8A ***Collected:*** 7/15/2016 ***Lab ID:*** *0008*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.99	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1221	ND	0.99	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1232	ND	0.99	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1242	ND	0.99	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1248	23	0.99	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1254	ND	0.99	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1260	ND	0.99	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1262	ND	0.99	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1268	ND	0.99	mg/Kg	7/22/2016	AB	7/22/2016	EH

Client Sample Description 1-6A-13A ***Collected:*** 7/15/2016 ***Lab ID:*** *0009*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.99	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1221	ND	0.99	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1232	ND	0.99	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1242	ND	0.99	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1248	32	0.99	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1254	ND	0.99	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1260	ND	0.99	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1262	ND	0.99	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1268	ND	0.99	mg/Kg	7/22/2016	AB	7/22/2016	EH

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EMSL Order:	011604646
CustomerID:	COCC45
CustomerPO:	150794
ProjectID:	

Attn: **Mike Baltrusaitis**
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1337 Veterans Memorial Drive
Jessup, PA 18434

Phone:
Fax: (570) 963-0242
Received: 07/20/16 9:30 AM

Project: **Scranton Lace / 150794**

Analytical Results

Client Sample Description 1-6A-18A ***Collected:*** 7/15/2016 ***Lab ID:*** *0010*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.99	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1221	ND	0.99	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1232	ND	0.99	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1242	ND	0.99	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1248	26	0.99	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1254	ND	0.99	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1260	ND	0.99	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1262	ND	0.99	mg/Kg	7/22/2016	AB	7/22/2016	EH
3550C/8082A	Aroclor-1268	ND	0.99	mg/Kg	7/22/2016	AB	7/22/2016	EH

Client Sample Description 1-6A-23A ***Collected:*** 7/15/2016 ***Lab ID:*** *0011*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	6.1	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1221	ND	6.1	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1232	ND	6.1	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1242	ND	6.1	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1248	130	6.1	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1254	ND	6.1	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1260	ND	6.1	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1262	ND	6.1	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1268	ND	6.1	mg/Kg	7/22/2016	AB	7/27/2016	EH

Client Sample Description 1-13-1A ***Collected:*** 7/15/2016 ***Lab ID:*** *0012*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.98	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1221	ND	0.98	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1232	ND	0.98	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1242	ND	0.98	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1248	ND	0.98	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1254	ND	0.98	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1260	6.7	0.98	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1262	ND	0.98	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1268	ND	0.98	mg/Kg	7/22/2016	AB	7/27/2016	EH

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Project: **Scranton Lace / 150794**

Analytical Results

Client Sample Description 1-13-2A ***Collected:*** 7/15/2016 ***Lab ID:*** *0013*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1221	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1232	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1242	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1248	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1254	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1260	1.7	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1262	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1268	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH

Client Sample Description 1-13-3A ***Collected:*** 7/15/2016 ***Lab ID:*** *0014*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.98	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1221	ND	0.98	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1232	ND	0.98	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1242	ND	0.98	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1248	ND	0.98	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1254	ND	0.98	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1260	1.9	0.98	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1262	ND	0.98	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1268	ND	0.98	mg/Kg	7/22/2016	AB	7/27/2016	EH

Client Sample Description 1-13-4A ***Collected:*** 7/15/2016 ***Lab ID:*** *0015*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1221	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1232	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1242	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1248	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1254	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1260	2.2	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1262	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1268	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH

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Project: **Scranton Lace / 150794**

Analytical Results

Client Sample Description 1-13-5A ***Collected:*** 7/15/2016 ***Lab ID:*** *0016*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1221	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1232	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1242	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1248	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1254	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1260	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1262	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1268	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH

Client Sample Description 1-13-6A ***Collected:*** 7/15/2016 ***Lab ID:*** *0017*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1221	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1232	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1242	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1248	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1254	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1260	1.1	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1262	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1268	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH

Client Sample Description 1-13-7A ***Collected:*** 7/15/2016 ***Lab ID:*** *0018*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1221	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1232	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1242	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1248	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1254	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1260	2.2	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1262	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1268	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH

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Project: **Scranton Lace / 150794**

Analytical Results

Client Sample Description 1-13-8A ***Collected:*** 7/15/2016 ***Lab ID:*** *0019*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1221	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1232	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1242	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1248	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1254	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1260	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1262	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1268	ND	0.99	mg/Kg	7/22/2016	AB	7/27/2016	EH

Client Sample Description 1-13-9A ***Collected:*** 7/15/2016 ***Lab ID:*** *0020*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.98	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1221	ND	0.98	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1232	ND	0.98	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1242	ND	0.98	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1248	ND	0.98	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1254	ND	0.98	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1260	2.0	0.98	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1262	ND	0.98	mg/Kg	7/22/2016	AB	7/27/2016	EH
3550C/8082A	Aroclor-1268	ND	0.98	mg/Kg	7/22/2016	AB	7/27/2016	EH

Client Sample Description 1-13-10A ***Collected:*** 7/15/2016 ***Lab ID:*** *0021*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	20	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1221	ND	20	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1232	ND	20	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1242	ND	20	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1248	ND	20	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1254	ND	20	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1260	230	20	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1262	ND	20	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1268	ND	20	mg/Kg	7/28/2016	AB	7/29/2016	EH

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Project: **Scranton Lace / 150794**

Analytical Results

Client Sample Description 1-13-11A ***Collected:*** 7/15/2016 ***Lab ID:*** *0022*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	9.7	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1221	ND	9.7	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1232	ND	9.7	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1242	ND	9.7	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1248	ND	9.7	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1254	ND	9.7	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1260	130	9.7	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1262	ND	9.7	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1268	ND	9.7	mg/Kg	7/28/2016	AB	7/29/2016	EH

Client Sample Description 1-13-12A ***Collected:*** 7/15/2016 ***Lab ID:*** *0023*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	20	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1221	ND	20	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1232	ND	20	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1242	ND	20	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1248	ND	20	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1254	ND	20	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1260	210	20	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1262	ND	20	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1268	ND	0.099	mg/Kg	7/28/2016	AB	7/29/2016	EH

Client Sample Description 1-13-13A ***Collected:*** 7/15/2016 ***Lab ID:*** *0024*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.97	mg/Kg	7/28/2016	AB	7/28/2016	EH
3550C/8082A	Aroclor-1221	ND	0.97	mg/Kg	7/28/2016	AB	7/28/2016	EH
3550C/8082A	Aroclor-1232	ND	0.97	mg/Kg	7/28/2016	AB	7/28/2016	EH
3550C/8082A	Aroclor-1242	ND	0.97	mg/Kg	7/28/2016	AB	7/28/2016	EH
3550C/8082A	Aroclor-1248	ND	0.97	mg/Kg	7/28/2016	AB	7/28/2016	EH
3550C/8082A	Aroclor-1254	ND	0.97	mg/Kg	7/28/2016	AB	7/28/2016	EH
3550C/8082A	Aroclor-1260	1.2	0.97	mg/Kg	7/28/2016	AB	7/28/2016	EH
3550C/8082A	Aroclor-1262	ND	0.97	mg/Kg	7/28/2016	AB	7/28/2016	EH
3550C/8082A	Aroclor-1268	ND	0.97	mg/Kg	7/28/2016	AB	7/28/2016	EH

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Analytical Results

Client Sample Description 1-13-14A ***Collected:*** 7/15/2016 ***Lab ID:*** *0025*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.99	mg/Kg	7/28/2016	AB	7/28/2016	EH
3550C/8082A	Aroclor-1221	ND	0.99	mg/Kg	7/28/2016	AB	7/28/2016	EH
3550C/8082A	Aroclor-1232	ND	0.99	mg/Kg	7/28/2016	AB	7/28/2016	EH
3550C/8082A	Aroclor-1242	ND	0.99	mg/Kg	7/28/2016	AB	7/28/2016	EH
3550C/8082A	Aroclor-1248	ND	0.99	mg/Kg	7/28/2016	AB	7/28/2016	EH
3550C/8082A	Aroclor-1254	ND	0.99	mg/Kg	7/28/2016	AB	7/28/2016	EH
3550C/8082A	Aroclor-1260	12	0.99	mg/Kg	7/28/2016	AB	7/28/2016	EH
3550C/8082A	Aroclor-1262	ND	0.99	mg/Kg	7/28/2016	AB	7/28/2016	EH
3550C/8082A	Aroclor-1268	ND	0.99	mg/Kg	7/28/2016	AB	7/28/2016	EH

Client Sample Description 1-13-15A ***Collected:*** 7/15/2016 ***Lab ID:*** *0026*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.97	mg/Kg	7/28/2016	AB	7/28/2016	EH
3550C/8082A	Aroclor-1221	ND	0.97	mg/Kg	7/28/2016	AB	7/28/2016	EH
3550C/8082A	Aroclor-1232	ND	0.97	mg/Kg	7/28/2016	AB	7/28/2016	EH
3550C/8082A	Aroclor-1242	ND	0.97	mg/Kg	7/28/2016	AB	7/28/2016	EH
3550C/8082A	Aroclor-1248	ND	0.97	mg/Kg	7/28/2016	AB	7/28/2016	EH
3550C/8082A	Aroclor-1254	ND	0.97	mg/Kg	7/28/2016	AB	7/28/2016	EH
3550C/8082A	Aroclor-1260	2.3	0.97	mg/Kg	7/28/2016	AB	7/28/2016	EH
3550C/8082A	Aroclor-1262	ND	0.97	mg/Kg	7/28/2016	AB	7/28/2016	EH
3550C/8082A	Aroclor-1268	ND	0.97	mg/Kg	7/28/2016	AB	7/28/2016	EH

Client Sample Description 1-13-16A ***Collected:*** 7/15/2016 ***Lab ID:*** *0027*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	9.7	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1221	ND	9.7	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1232	ND	9.7	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1242	ND	9.7	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1248	ND	9.7	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1254	ND	9.7	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1260	110	9.7	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1262	ND	9.7	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1268	ND	9.7	mg/Kg	7/28/2016	AB	7/29/2016	EH

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Analytical Results

Client Sample Description 1-13-17A ***Collected:*** 7/15/2016 ***Lab ID:*** *0028*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.98	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1221	ND	0.98	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1232	ND	0.98	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1242	ND	0.98	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1248	ND	0.98	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1254	ND	0.98	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1260	2.9	0.98	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1262	ND	0.98	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1268	ND	0.98	mg/Kg	7/28/2016	AB	7/29/2016	EH

Client Sample Description 1-13-18A ***Collected:*** 7/15/2016 ***Lab ID:*** *0029*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.99	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1221	ND	0.99	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1232	ND	0.99	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1242	ND	0.99	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1248	ND	0.99	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1254	ND	0.99	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1260	1.5	0.99	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1262	ND	0.99	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1268	ND	0.99	mg/Kg	7/28/2016	AB	7/29/2016	EH

Client Sample Description 1-13-19A ***Collected:*** 7/15/2016 ***Lab ID:*** *0030*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.99	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1221	ND	0.99	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1232	ND	0.99	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1242	ND	0.99	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1248	ND	0.99	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1254	ND	0.99	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1260	3.1	0.99	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1262	ND	0.99	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1268	ND	0.99	mg/Kg	7/28/2016	AB	7/29/2016	EH

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Received: 07/20/16 9:30 AM

Project: **Scranton Lace / 150794**

Analytical Results

Client Sample Description 1-13-20A ***Collected:*** 7/15/2016 ***Lab ID:*** *0031*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	500	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1221	ND	500	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1232	ND	500	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1242	ND	500	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1248	ND	500	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1254	ND	500	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1260	6900	500	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1262	ND	500	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1268	ND	500	mg/Kg	7/28/2016	AB	7/29/2016	EH

Client Sample Description 1-13-22A ***Collected:*** 7/15/2016 ***Lab ID:*** *0032*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	1.0	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1221	ND	1.0	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1232	ND	1.0	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1242	ND	1.0	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1248	ND	1.0	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1254	ND	1.0	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1260	2.0	1.0	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1262	ND	1.0	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1268	ND	1.0	mg/Kg	7/28/2016	AB	7/29/2016	EH

Client Sample Description 1-13-23A ***Collected:*** 7/15/2016 ***Lab ID:*** *0033*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.98	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1221	ND	0.98	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1232	ND	0.98	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1242	ND	0.98	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1248	ND	0.98	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1254	ND	0.98	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1260	2.5	0.98	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1262	ND	0.98	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1268	ND	0.98	mg/Kg	7/28/2016	AB	7/29/2016	EH

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Project: **Scranton Lace / 150794**

Analytical Results

Client Sample Description 1-13-24A ***Collected:*** 7/15/2016 ***Lab ID:*** *0034*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.99	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1221	ND	0.99	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1232	ND	0.99	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1242	ND	0.99	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1248	ND	0.99	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1254	ND	0.99	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1260	ND	0.99	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1262	ND	0.99	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1268	ND	0.99	mg/Kg	7/28/2016	AB	7/29/2016	EH

Client Sample Description 1-13-25A ***Collected:*** 7/15/2016 ***Lab ID:*** *0035*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.98	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1221	ND	0.98	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1232	ND	0.98	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1242	ND	0.98	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1248	ND	0.98	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1254	ND	0.98	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1260	6.2	0.98	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1262	ND	0.98	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1268	ND	0.98	mg/Kg	7/28/2016	AB	7/29/2016	EH

Client Sample Description 1-13-26A ***Collected:*** 7/15/2016 ***Lab ID:*** *0036*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3550C/8082A	Aroclor-1016	ND	0.98	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1221	ND	0.98	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1232	ND	0.98	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1242	ND	0.98	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1248	ND	0.98	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1254	ND	0.98	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1260	7.6	0.98	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1262	ND	0.98	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1268	ND	0.98	mg/Kg	7/28/2016	AB	7/29/2016	EH

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Project: **Scranton Lace / 150794**

Analytical Results

Client Sample Description 1-13-27A ***Collected:*** 7/15/2016 ***Lab ID:*** *0037*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date*	*Analyst*	*Analysis Date*	*Analyst*
3550C/8082A	Aroclor-1016	ND	5.0	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1221	ND	5.0	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1232	ND	5.0	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1242	ND	5.0	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1248	ND	5.0	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1254	ND	5.0	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1260	47	5.0	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1262	ND	5.0	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1268	ND	5.0	mg/Kg	7/28/2016	AB	7/29/2016	EH

Client Sample Description 1-13-28A ***Collected:*** 7/15/2016 ***Lab ID:*** *0038*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date*	*Analyst*	*Analysis Date*	*Analyst*
3550C/8082A	Aroclor-1016	ND	0.97	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1221	ND	0.97	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1232	ND	0.97	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1242	ND	0.97	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1248	ND	0.97	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1254	ND	0.97	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1260	5.6	0.97	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1262	ND	0.97	mg/Kg	7/28/2016	AB	7/29/2016	EH
3550C/8082A	Aroclor-1268	ND	0.97	mg/Kg	7/28/2016	AB	7/29/2016	EH

Definitions:

ND - indicates that the analyte was not detected at the reporting limit
RL - Reporting Limit (Analytical)

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8/11/2016

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 7/28/2016. The results are tabulated on the attached data pages for the following client designated project:

Scranton Lace

The reference number for these samples is EMSL Order #011604840. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Approved By:

Phillip Worby, Chemistry Laboratory Manager

The test results contained within this report meet the requirements of NELAP and/or the specific certification program that is applicable, unless otherwise noted.
NELAP Certifications: NJ 03036, NY 10872, PA 68-00367

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the NELAP, unless specifically indicated. All results for soil samples are reported on a dry weight basis, unless otherwise noted. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

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Received: 07/28/16 9:30 AM

Project: **Scranton Lace**

Analytical Results

Client Sample Description 1-6A-9A ***Collected:*** 7/26/2016 ***Lab ID:*** *0001*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	1.2	mg/Kg	8/4/2016	AB	8/8/2016	EH
3540C/8082A	Aroclor-1221	ND	1.2	mg/Kg	8/4/2016	AB	8/8/2016	EH
3540C/8082A	Aroclor-1232	ND	1.2	mg/Kg	8/4/2016	AB	8/8/2016	EH
3540C/8082A	Aroclor-1242	ND	1.2	mg/Kg	8/4/2016	AB	8/8/2016	EH
3540C/8082A	Aroclor-1248	45	1.2	mg/Kg	8/4/2016	AB	8/8/2016	EH
3540C/8082A	Aroclor-1254	ND	1.2	mg/Kg	8/4/2016	AB	8/8/2016	EH
3540C/8082A	Aroclor-1260	ND	1.2	mg/Kg	8/4/2016	AB	8/8/2016	EH
3540C/8082A	Aroclor-1262	ND	1.2	mg/Kg	8/4/2016	AB	8/8/2016	EH
3540C/8082A	Aroclor-1268	ND	1.2	mg/Kg	8/4/2016	AB	8/8/2016	EH

Client Sample Description 1-6A-10A ***Collected:*** 7/26/2016 ***Lab ID:*** *0002*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.96	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1221	ND	0.96	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1232	ND	0.96	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1242	ND	0.96	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1248	8.7	0.96	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1254	ND	0.96	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1260	ND	0.96	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1262	ND	0.96	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1268	ND	0.96	mg/Kg	8/4/2016	AB	8/5/2016	EH

Client Sample Description 1-6A-11A ***Collected:*** 7/26/2016 ***Lab ID:*** *0003*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.99	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1221	ND	0.99	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1232	ND	0.99	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1242	ND	0.99	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1248	10	0.99	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1254	ND	0.99	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1260	ND	0.99	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1262	ND	0.99	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1268	ND	0.99	mg/Kg	8/4/2016	AB	8/5/2016	EH

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Received: 07/28/16 9:30 AM

Project: **Scranton Lace**

Analytical Results

Client Sample Description 1-6A-12A ***Collected:*** 7/26/2016 ***Lab ID:*** *0004*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.96	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1221	ND	0.96	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1232	ND	0.96	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1242	ND	0.96	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1248	21	0.96	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1254	ND	0.96	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1260	ND	0.96	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1262	ND	0.96	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1268	ND	0.96	mg/Kg	8/4/2016	AB	8/5/2016	EH

Client Sample Description 1-6A-14A ***Collected:*** 7/26/2016 ***Lab ID:*** *0005*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.96	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1221	ND	0.96	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1232	ND	0.96	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1242	ND	0.96	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1248	15	0.96	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1254	ND	0.96	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1260	ND	0.96	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1262	ND	0.96	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1268	ND	0.96	mg/Kg	8/4/2016	AB	8/5/2016	EH

Client Sample Description 1-6A-15A ***Collected:*** 7/26/2016 ***Lab ID:*** *0006*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.99	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1221	ND	0.99	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1232	ND	0.99	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1242	ND	0.99	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1248	15	0.99	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1254	ND	0.99	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1260	ND	0.99	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1262	ND	0.99	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1268	ND	0.99	mg/Kg	8/4/2016	AB	8/5/2016	EH

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Client Sample Description 1-6A-16A ***Collected:*** 7/26/2016 ***Lab ID:*** *0007*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.99	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1221	ND	0.99	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1232	ND	0.99	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1242	ND	0.99	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1248	12	0.99	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1254	ND	0.99	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1260	ND	0.99	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1262	ND	0.99	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1268	ND	0.99	mg/Kg	8/4/2016	AB	8/5/2016	EH

Client Sample Description 1-6A-17A ***Collected:*** 7/26/2016 ***Lab ID:*** *0008*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.97	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1221	ND	0.97	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1232	ND	0.97	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1242	ND	0.97	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1248	17	0.97	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1254	ND	0.97	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1260	ND	0.97	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1262	ND	0.97	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1268	ND	0.97	mg/Kg	8/4/2016	AB	8/5/2016	EH

Client Sample Description 1-6A-19A ***Collected:*** 7/26/2016 ***Lab ID:*** *0009*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	240	mg/Kg	8/4/2016	AB	8/8/2016	EH
3540C/8082A	Aroclor-1221	ND	240	mg/Kg	8/4/2016	AB	8/8/2016	EH
3540C/8082A	Aroclor-1232	ND	240	mg/Kg	8/4/2016	AB	8/8/2016	EH
3540C/8082A	Aroclor-1242	ND	240	mg/Kg	8/4/2016	AB	8/8/2016	EH
3540C/8082A	Aroclor-1248	2500	240	mg/Kg	8/4/2016	AB	8/8/2016	EH
3540C/8082A	Aroclor-1254	ND	240	mg/Kg	8/4/2016	AB	8/8/2016	EH
3540C/8082A	Aroclor-1260	ND	240	mg/Kg	8/4/2016	AB	8/8/2016	EH
3540C/8082A	Aroclor-1262	ND	240	mg/Kg	8/4/2016	AB	8/8/2016	EH
3540C/8082A	Aroclor-1268	ND	240	mg/Kg	8/4/2016	AB	8/8/2016	EH

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Analytical Results

Client Sample Description 1-6A-20A ***Collected:*** 7/26/2016 ***Lab ID:*** *0010*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.96	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1221	ND	0.96	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1232	ND	0.96	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1242	ND	0.96	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1248	9.1	0.96	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1254	ND	0.96	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1260	ND	0.96	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1262	ND	0.96	mg/Kg	8/4/2016	AB	8/5/2016	EH
3540C/8082A	Aroclor-1268	ND	0.96	mg/Kg	8/4/2016	AB	8/5/2016	EH

Client Sample Description 1-6A-21A ***Collected:*** 7/26/2016 ***Lab ID:*** *0011*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	25	mg/Kg	8/4/2016	AB	8/8/2016	EH
3540C/8082A	Aroclor-1221	ND	25	mg/Kg	8/4/2016	AB	8/8/2016	EH
3540C/8082A	Aroclor-1232	ND	25	mg/Kg	8/4/2016	AB	8/8/2016	EH
3540C/8082A	Aroclor-1242	ND	25	mg/Kg	8/4/2016	AB	8/8/2016	EH
3540C/8082A	Aroclor-1248	240	25	mg/Kg	8/4/2016	AB	8/8/2016	EH
3540C/8082A	Aroclor-1254	ND	25	mg/Kg	8/4/2016	AB	8/8/2016	EH
3540C/8082A	Aroclor-1260	ND	25	mg/Kg	8/4/2016	AB	8/8/2016	EH
3540C/8082A	Aroclor-1262	ND	25	mg/Kg	8/4/2016	AB	8/8/2016	EH
3540C/8082A	Aroclor-1268	ND	25	mg/Kg	8/4/2016	AB	8/8/2016	EH

Client Sample Description 1-6A-22A ***Collected:*** 7/26/2016 ***Lab ID:*** *0012*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	250	mg/Kg	8/4/2016	AB	8/8/2016	EH
3540C/8082A	Aroclor-1221	ND	250	mg/Kg	8/4/2016	AB	8/8/2016	EH
3540C/8082A	Aroclor-1232	ND	250	mg/Kg	8/4/2016	AB	8/8/2016	EH
3540C/8082A	Aroclor-1242	ND	250	mg/Kg	8/4/2016	AB	8/8/2016	EH
3540C/8082A	Aroclor-1248	3600	250	mg/Kg	8/4/2016	AB	8/8/2016	EH
3540C/8082A	Aroclor-1254	ND	250	mg/Kg	8/4/2016	AB	8/8/2016	EH
3540C/8082A	Aroclor-1260	ND	250	mg/Kg	8/4/2016	AB	8/8/2016	EH
3540C/8082A	Aroclor-1262	ND	250	mg/Kg	8/4/2016	AB	8/8/2016	EH
3540C/8082A	Aroclor-1268	ND	250	mg/Kg	8/4/2016	AB	8/8/2016	EH

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Analytical Results

Client Sample Description 1-6A-24A ***Collected:*** 7/26/2016 ***Lab ID:*** *0013*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.98	mg/Kg	8/5/2016	TC	8/8/2016	EH
3540C/8082A	Aroclor-1221	ND	0.98	mg/Kg	8/5/2016	TC	8/8/2016	EH
3540C/8082A	Aroclor-1232	ND	0.98	mg/Kg	8/5/2016	TC	8/8/2016	EH
3540C/8082A	Aroclor-1242	ND	0.98	mg/Kg	8/5/2016	TC	8/8/2016	EH
3540C/8082A	Aroclor-1248	42	0.98	mg/Kg	8/5/2016	TC	8/8/2016	EH
3540C/8082A	Aroclor-1254	ND	0.98	mg/Kg	8/5/2016	TC	8/8/2016	EH
3540C/8082A	Aroclor-1260	ND	0.98	mg/Kg	8/5/2016	TC	8/8/2016	EH
3540C/8082A	Aroclor-1262	ND	0.98	mg/Kg	8/5/2016	TC	8/8/2016	EH
3540C/8082A	Aroclor-1268	ND	0.98	mg/Kg	8/5/2016	TC	8/8/2016	EH

Client Sample Description 1-6A-25A ***Collected:*** 7/26/2016 ***Lab ID:*** *0014*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.96	mg/Kg	8/5/2016	TC	8/8/2016	EH
3540C/8082A	Aroclor-1221	ND	0.96	mg/Kg	8/5/2016	TC	8/8/2016	EH
3540C/8082A	Aroclor-1232	ND	0.96	mg/Kg	8/5/2016	TC	8/8/2016	EH
3540C/8082A	Aroclor-1242	ND	0.96	mg/Kg	8/5/2016	TC	8/8/2016	EH
3540C/8082A	Aroclor-1248	19	0.96	mg/Kg	8/5/2016	TC	8/8/2016	EH
3540C/8082A	Aroclor-1254	ND	0.96	mg/Kg	8/5/2016	TC	8/8/2016	EH
3540C/8082A	Aroclor-1260	ND	0.96	mg/Kg	8/5/2016	TC	8/8/2016	EH
3540C/8082A	Aroclor-1262	ND	0.96	mg/Kg	8/5/2016	TC	8/8/2016	EH
3540C/8082A	Aroclor-1268	ND	0.96	mg/Kg	8/5/2016	TC	8/8/2016	EH

Client Sample Description 1-6A-26A ***Collected:*** 7/26/2016 ***Lab ID:*** *0015*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.99	mg/Kg	8/5/2016	TC	8/9/2016	EH
3540C/8082A	Aroclor-1221	ND	0.99	mg/Kg	8/5/2016	TC	8/9/2016	EH
3540C/8082A	Aroclor-1232	ND	0.99	mg/Kg	8/5/2016	TC	8/9/2016	EH
3540C/8082A	Aroclor-1242	ND	0.99	mg/Kg	8/5/2016	TC	8/9/2016	EH
3540C/8082A	Aroclor-1248	27	0.99	mg/Kg	8/5/2016	TC	8/9/2016	EH
3540C/8082A	Aroclor-1254	ND	0.99	mg/Kg	8/5/2016	TC	8/9/2016	EH
3540C/8082A	Aroclor-1260	ND	0.99	mg/Kg	8/5/2016	TC	8/9/2016	EH
3540C/8082A	Aroclor-1262	ND	0.99	mg/Kg	8/5/2016	TC	8/9/2016	EH
3540C/8082A	Aroclor-1268	ND	0.99	mg/Kg	8/5/2016	TC	8/9/2016	EH

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Analytical Results

Client Sample Description 1-6A-27A ***Collected:*** 7/26/2016 ***Lab ID:*** *0016*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	8.2	mg/Kg	8/5/2016	TC	8/9/2016	EH
3540C/8082A	Aroclor-1221	ND	8.2	mg/Kg	8/5/2016	TC	8/9/2016	EH
3540C/8082A	Aroclor-1232	ND	8.2	mg/Kg	8/5/2016	TC	8/9/2016	EH
3540C/8082A	Aroclor-1242	ND	8.2	mg/Kg	8/5/2016	TC	8/9/2016	EH
3540C/8082A	Aroclor-1248	86	8.2	mg/Kg	8/5/2016	TC	8/9/2016	EH
3540C/8082A	Aroclor-1254	ND	8.2	mg/Kg	8/5/2016	TC	8/9/2016	EH
3540C/8082A	Aroclor-1260	ND	8.2	mg/Kg	8/5/2016	TC	8/9/2016	EH
3540C/8082A	Aroclor-1262	ND	8.2	mg/Kg	8/5/2016	TC	8/9/2016	EH
3540C/8082A	Aroclor-1268	ND	8.2	mg/Kg	8/5/2016	TC	8/9/2016	EH

Client Sample Description 1-6A-28A ***Collected:*** 7/26/2016 ***Lab ID:*** *0017*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	6.1	mg/Kg	8/5/2016	TC	8/9/2016	EH
3540C/8082A	Aroclor-1221	ND	6.1	mg/Kg	8/5/2016	TC	8/9/2016	EH
3540C/8082A	Aroclor-1232	ND	6.1	mg/Kg	8/5/2016	TC	8/9/2016	EH
3540C/8082A	Aroclor-1242	ND	6.1	mg/Kg	8/5/2016	TC	8/9/2016	EH
3540C/8082A	Aroclor-1248	73	6.1	mg/Kg	8/5/2016	TC	8/9/2016	EH
3540C/8082A	Aroclor-1254	ND	6.1	mg/Kg	8/5/2016	TC	8/9/2016	EH
3540C/8082A	Aroclor-1260	ND	6.1	mg/Kg	8/5/2016	TC	8/9/2016	EH
3540C/8082A	Aroclor-1262	ND	6.1	mg/Kg	8/5/2016	TC	8/9/2016	EH
3540C/8082A	Aroclor-1268	ND	6.1	mg/Kg	8/5/2016	TC	8/9/2016	EH

Client Sample Description 1-6A-29A ***Collected:*** 7/26/2016 ***Lab ID:*** *0018*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	160	mg/Kg	8/5/2016	TC	8/9/2016	EH
3540C/8082A	Aroclor-1221	ND	160	mg/Kg	8/5/2016	TC	8/9/2016	EH
3540C/8082A	Aroclor-1232	ND	160	mg/Kg	8/5/2016	TC	8/9/2016	EH
3540C/8082A	Aroclor-1242	ND	160	mg/Kg	8/5/2016	TC	8/9/2016	EH
3540C/8082A	Aroclor-1248	1600	160	mg/Kg	8/5/2016	TC	8/9/2016	EH
3540C/8082A	Aroclor-1254	ND	160	mg/Kg	8/5/2016	TC	8/9/2016	EH
3540C/8082A	Aroclor-1260	ND	160	mg/Kg	8/5/2016	TC	8/9/2016	EH
3540C/8082A	Aroclor-1262	ND	160	mg/Kg	8/5/2016	TC	8/9/2016	EH
3540C/8082A	Aroclor-1268	ND	160	mg/Kg	8/5/2016	TC	8/9/2016	EH

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Client Sample Description 1-6A-30A ***Collected:*** 7/26/2016 ***Lab ID:*** *0019*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	120	mg/Kg	8/5/2016	TC	8/9/2016	EH
3540C/8082A	Aroclor-1221	ND	120	mg/Kg	8/5/2016	TC	8/9/2016	EH
3540C/8082A	Aroclor-1232	ND	120	mg/Kg	8/5/2016	TC	8/9/2016	EH
3540C/8082A	Aroclor-1242	ND	120	mg/Kg	8/5/2016	TC	8/9/2016	EH
3540C/8082A	Aroclor-1248	1800	120	mg/Kg	8/5/2016	TC	8/9/2016	EH
3540C/8082A	Aroclor-1254	ND	120	mg/Kg	8/5/2016	TC	8/9/2016	EH
3540C/8082A	Aroclor-1260	ND	120	mg/Kg	8/5/2016	TC	8/9/2016	EH
3540C/8082A	Aroclor-1262	ND	120	mg/Kg	8/5/2016	TC	8/9/2016	EH
3540C/8082A	Aroclor-1268	ND	120	mg/Kg	8/5/2016	TC	8/9/2016	EH

Client Sample Description 1-6A-31A ***Collected:*** 7/26/2016 ***Lab ID:*** *0020*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	120	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1221	ND	120	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1232	ND	120	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1242	ND	120	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1248	2400	120	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1254	ND	120	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1260	ND	120	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1262	ND	120	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1268	ND	120	mg/Kg	8/9/2016	AB	8/11/2016	EH

Client Sample Description 1-6A-32A ***Collected:*** 7/26/2016 ***Lab ID:*** *0021*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	12	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1221	ND	12	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1232	ND	12	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1242	ND	12	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1248	110	12	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1254	ND	12	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1260	ND	12	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1262	ND	12	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1268	ND	12	mg/Kg	8/9/2016	AB	8/11/2016	EH

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EMSL Order:	011604840
CustomerID:	COCC45
CustomerPO:	150794
ProjectID:	

Attn: **Mike Baltrusaitis**
Cocciardi & Associates Inc.
1337 Veterans Memorial Drive
Jessup, PA 18434

Phone:
Fax: (570) 963-0242
Received: 07/28/16 9:30 AM

Project: **Scranton Lace**

Analytical Results

Client Sample Description 1-6A-33A ***Collected:*** 7/26/2016 ***Lab ID:*** *0022*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	5.0	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1221	ND	5.0	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1232	ND	5.0	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1242	ND	5.0	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1248	44	5.0	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1254	ND	5.0	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1260	ND	5.0	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1262	ND	5.0	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1268	ND	5.0	mg/Kg	8/9/2016	AB	8/11/2016	EH

Client Sample Description 1-6A-34A ***Collected:*** 7/26/2016 ***Lab ID:*** *0023*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.98	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1221	ND	0.98	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1232	ND	0.98	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1242	ND	0.98	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1248	30	0.98	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1254	ND	0.98	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1260	ND	0.98	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1262	ND	0.98	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1268	ND	0.98	mg/Kg	8/9/2016	AB	8/11/2016	EH

Client Sample Description 1-6A-35A ***Collected:*** 7/26/2016 ***Lab ID:*** *0024*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.96	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1221	ND	0.96	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1232	ND	0.96	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1242	ND	0.96	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1248	6.6	0.96	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1254	ND	0.96	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1260	ND	0.96	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1262	ND	0.96	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1268	ND	0.96	mg/Kg	8/9/2016	AB	8/11/2016	EH

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EMSL Order:	011604840
CustomerID:	COCC45
CustomerPO:	150794
ProjectID:	

Attn: **Mike Baltrusaitis**
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1337 Veterans Memorial Drive
Jessup, PA 18434

Phone:
Fax: (570) 963-0242
Received: 07/28/16 9:30 AM

Project: **Scranton Lace**

Analytical Results

Client Sample Description 1-8-AA
Locations 1,2,3,4,7
Collected: 7/26/2016 ***Lab ID:*** *0025*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.99	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1221	ND	0.99	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1232	ND	0.99	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1242	ND	0.99	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1248	1.8	0.99	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1254	ND	0.99	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1260	ND	0.99	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1262	ND	0.99	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1268	ND	0.99	mg/Kg	8/9/2016	AB	8/11/2016	EH

Client Sample Description 1-8-BA
locations 15,16,18,31,33,34
Collected: 7/26/2016 ***Lab ID:*** *0026*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.98	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1221	ND	0.98	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1232	ND	0.98	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1242	ND	0.98	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1248	ND	0.98	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1254	ND	0.98	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1260	ND	0.98	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1262	ND	0.98	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1268	ND	0.98	mg/Kg	8/9/2016	AB	8/11/2016	EH

Client Sample Description 1-8-CA
locations 12,13,14,19,20,21
Collected: 7/26/2016 ***Lab ID:*** *0027*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.96	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1221	ND	0.96	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1232	ND	0.96	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1242	ND	0.96	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1248	2.6	0.96	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1254	ND	0.96	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1260	ND	0.96	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1262	ND	0.96	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1268	ND	0.96	mg/Kg	8/9/2016	AB	8/11/2016	EH

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EMSL Order:	011604840
CustomerID:	COCC45
CustomerPO:	150794
ProjectID:	

Attn: **Mike Baltrusaitis**
Cocciardi & Associates Inc.
1337 Veterans Memorial Drive
Jessup, PA 18434

Phone:
Fax: (570) 963-0242
Received: 07/28/16 9:30 AM

Project: **Scranton Lace**

Analytical Results

Client Sample Description 1-8-DA locations 28,29,30,36,37 ***Collected:*** 7/26/2016 ***Lab ID:*** *0028*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.96	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1221	ND	0.96	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1232	ND	0.96	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1242	ND	0.96	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1248	3.2	0.96	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1254	ND	0.96	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1260	1.4	0.96	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1262	ND	0.96	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1268	ND	0.96	mg/Kg	8/9/2016	AB	8/11/2016	EH

Client Sample Description 1-8-EA locations 11,22,26,27,38,39 ***Collected:*** 7/26/2016 ***Lab ID:*** *0029*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.96	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1221	ND	0.96	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1232	ND	0.96	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1242	ND	0.96	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1248	2.4	0.96	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1254	ND	0.96	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1260	ND	0.96	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1262	ND	0.96	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1268	ND	0.96	mg/Kg	8/9/2016	AB	8/11/2016	EH

Client Sample Description 1-8-FA locations 42,43,44,45,46,47,48 ***Collected:*** 7/26/2016 ***Lab ID:*** *0030*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.96	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1221	ND	0.96	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1232	ND	0.96	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1242	ND	0.96	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1248	1.4	0.96	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1254	ND	0.96	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1260	ND	0.96	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1262	ND	0.96	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1268	ND	0.96	mg/Kg	8/9/2016	AB	8/11/2016	EH

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EMSL Order:	011604840
CustomerID:	COCC45
CustomerPO:	150794
ProjectID:	

Attn: **Mike Baltrusaitis**
Cocciardi & Associates Inc.
1337 Veterans Memorial Drive
Jessup, PA 18434

Phone:
Fax: (570) 963-0242
Received: 07/28/16 9:30 AM

Project: **Scranton Lace**

Analytical Results

Client Sample Description 1-8-GA
locations 49,50,51,52,53,54,55 ***Collected:*** 7/26/2016 ***Lab ID:*** *0031*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date*	*Analyst*	*Analysis Date*	*Analyst*
3540C/8082A	Aroclor-1016	ND	0.99	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1221	ND	0.99	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1232	ND	0.99	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1242	ND	0.99	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1248	1.8	0.99	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1254	ND	0.99	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1260	ND	0.99	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1262	ND	0.99	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1268	ND	0.99	mg/Kg	8/9/2016	AB	8/11/2016	EH

Client Sample Description 13-P1
Building 13 wall paint ***Collected:*** 7/26/2016 ***Lab ID:*** *0032*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date*	*Analyst*	*Analysis Date*	*Analyst*
3540C/8082A	Aroclor-1016	ND	0.79	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1221	ND	0.79	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1232	ND	0.79	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1242	ND	0.79	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1248	ND	0.79	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1254	ND	0.79	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1260	17	0.79	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1262	ND	0.79	mg/Kg	8/9/2016	AB	8/11/2016	EH
3540C/8082A	Aroclor-1268	ND	0.79	mg/Kg	8/9/2016	AB	8/11/2016	EH

Definitions:

ND - indicates that the analyte was not detected at the reporting limit
RL - Reporting Limit (Analytical)

Environmental Chemistry
Chain of Custody

EMSL Order Number (*Lab Use Only*):

011605369

PHONE
FAX:

Report To Contact Name: Mike Baltrusaitis		Bill To Company: Same	
Company Name: 1337 Veterans Memorial Drive		Attention To:	
Street: Cocciardi and Associates, Inc.		Street:	
City: Jessup	State/Province: PA Zip Code: 18434	City:	State/Province: Zip Code:
Phone: 570-291-0030	Fax: 570-291-0035	Phone:	Fax:
Project Name: 150794 (Scranton Lace)			U.S. State where Samples Collected:
Number of Samples in Shipment: 15	Date of Shipment: 8/17/16	Purchase Order:	Sampled By (Signature): Lindy Yardnoski
Please Provide results: ☐ FAX ☒ E-mail ☐ Mail		Email Results To: mbaltrusaitis@cocciardi.com	
Standard Turnaround Time: ☒ 2 Weeks	The following TAT's are subject to lab approval: ☐ 1 Week ☐ 4 Days ☐ 3 Days ☐ 2 Days ☐ 1 Day		

Failure to complete will hinder processing of samples

	Client Sample ID	Comp	Grab	Date/Time	Matrix (W=Water, S=Soil, A=Air, SL=Sludge, O= Other)	Preservative (1=HCL, 2=HNO3, 3=H2SO4, 4=ICE, 5=Other)	List Test(s) Needed: P	C	B						Comments
1	1-CT-1A		✓	8/12/16	O	4	✓								
2	1-CT-2A		✓	8/12/16	O	4	✓								
3	1-CT-3A		✓	8/12/16	O	4	✓								
4	1-2-1A		✓	8/12/16	O	4	✓								
5	1-2-2A		✓	8/12/16	O	4	✓								

Released By (Signature)	Date & Time	Received By	Date & Time
Lindy Yardnoski	8/17/16 1000	[illegible]	8/18/16 09:30 A

Please indicate reporting requirements: ☒ Results Only ☐ Results and QC ☐ Reduced Deliverables ☐ Disk Deliverable ☐ Other _____

Instructions or Comments:

OrderID: 011605369

Environmental Chemistry
Chain of Custody

EMSL Order Number (*Lab Use Only*):

011605369

PHONE:
FAX:

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

	Failure to complete will hinder processing of samples				Matrix	Preservative	List Test(s)							
	Client Sample ID	Comp	Grab	Date/Time	W=Water S=Soil A=Air SL=Sludge O= Other	1=HCL 2=HNO3 3=H2SO4 4=ICE 5=Other	P C B							Comments
6	1-2-3A		✓	8/12/16	O	4	✓							
7	1-30-1A		✓	8/12/16	O	4	✓							
8	1-30-2A		✓	8/12/16	O	4	✓							
9	1-30-3A		✓	8/12/16	O	4	✓							
10	1-13-10B		✓	8/12/16	O	4	✓							
11	1-13-11B		✓	8/12/16	O	4	✓							
12	1-13-12B		✓	8/12/16	O	4	✓							
13	1-13-16B		✓	8/12/16	O	4	✓							
14	1-13-17B		✓	8/12/16	O	4	✓							
15	1-13-27B		✓	8/12/16	O	4	✓							

OrderID: 011605369

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200 Route 130 North, Cinnaminson, NJ 08077
Phone: (856) 303-2500 Fax: (856) 858-4571 Email: EnvChemistry2@emsl.com

Attn: **Mike Baltrusaitis**
Cocciardi & Associates Inc.
1337 Veterans Memorial Drive
Jessup, PA 18434

Phone:
Fax: (570) 963-0242

8/29/2016

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 8/18/2016. The results are tabulated on the attached data pages for the following client designated project:

150794 (Scranton Lace)

The reference number for these samples is EMSL Order #011605369. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Approved By:

Phillip Worby, Chemistry Laboratory Manager

The test results contained within this report meet the requirements of NELAP and/or the specific certification program that is applicable, unless otherwise noted.
NELAP Certifications: NJ 03036, NY 10872, PA 68-00367

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the NELAP, unless specifically indicated. All results for soil samples are reported on a dry weight basis, unless otherwise noted. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

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EMSL Order: 011605369
CustomerID: COCC45
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Attn: **Mike Baltrusaitis**
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1337 Veterans Memorial Drive
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Phone:
Fax: (570) 963-0242
Received: 08/18/16 9:30 AM

Project: **150794 (Scranton Lace)**

Analytical Results

Client Sample Description 1-CT-1A ***Collected:*** 8/12/2016 ***Lab ID:*** *0001*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.86	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1221	ND	0.86	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1232	ND	0.86	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1242	ND	0.86	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1248	ND	0.86	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1254	ND	0.86	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1260	ND	0.86	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1262	ND	0.86	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1268	ND	0.86	mg/Kg	8/24/2016	AB	8/25/2016	EH

Client Sample Description 1-CT-2A ***Collected:*** 8/12/2016 ***Lab ID:*** *0002*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.69	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1221	ND	0.69	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1232	ND	0.69	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1242	ND	0.69	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1248	2.6	0.69	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1254	ND	0.69	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1260	ND	0.69	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1262	ND	0.69	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1268	ND	0.69	mg/Kg	8/24/2016	AB	8/25/2016	EH

Client Sample Description 1-CT-3A ***Collected:*** 8/12/2016 ***Lab ID:*** *0003*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.74	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1221	ND	0.74	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1232	ND	0.74	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1242	ND	0.74	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1248	ND	0.74	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1254	ND	0.74	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1260	0.96	0.74	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1262	ND	0.74	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1268	ND	0.74	mg/Kg	8/24/2016	AB	8/25/2016	EH

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Project: **150794 (Scranton Lace)**

Analytical Results

Client Sample Description 1-2-1A ***Collected:*** 8/12/2016 ***Lab ID:*** *0004*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.99	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1221	ND	0.99	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1232	ND	0.99	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1242	ND	0.99	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1248	ND	0.99	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1254	ND	0.99	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1260	ND	0.99	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1262	ND	0.99	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1268	ND	0.99	mg/Kg	8/24/2016	AB	8/25/2016	EH

Client Sample Description 1-2-2A ***Collected:*** 8/12/2016 ***Lab ID:*** *0005*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.98	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1221	ND	0.98	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1232	ND	0.98	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1242	ND	0.98	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1248	ND	0.98	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1254	ND	0.98	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1260	ND	0.98	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1262	ND	0.98	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1268	ND	0.98	mg/Kg	8/24/2016	AB	8/25/2016	EH

Client Sample Description 1-2-3A ***Collected:*** 8/12/2016 ***Lab ID:*** *0006*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.97	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1221	ND	0.97	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1232	ND	0.97	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1242	ND	0.97	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1248	ND	0.97	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1254	ND	0.97	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1260	ND	0.97	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1262	ND	0.97	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1268	ND	0.97	mg/Kg	8/24/2016	AB	8/25/2016	EH

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Received: 08/18/16 9:30 AM

Project: **150794 (Scranton Lace)**

Analytical Results

Client Sample Description 1-30-1A ***Collected:*** 8/12/2016 ***Lab ID:*** *0007*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.81	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1221	ND	0.81	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1232	ND	0.81	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1242	ND	0.81	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1248	ND	0.81	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1254	ND	0.81	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1260	ND	0.81	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1262	ND	0.81	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1268	ND	0.81	mg/Kg	8/24/2016	AB	8/25/2016	EH

Client Sample Description 1-30-2A ***Collected:*** 8/12/2016 ***Lab ID:*** *0008*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.99	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1221	ND	0.99	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1232	ND	0.99	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1242	ND	0.99	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1248	ND	0.99	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1254	ND	0.99	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1260	ND	0.99	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1262	ND	0.99	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1268	ND	0.99	mg/Kg	8/24/2016	AB	8/25/2016	EH

Client Sample Description 1-30-3A ***Collected:*** 8/12/2016 ***Lab ID:*** *0009*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.79	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1221	ND	0.79	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1232	ND	0.79	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1242	ND	0.79	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1248	ND	0.79	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1254	ND	0.79	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1260	ND	0.79	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1262	ND	0.79	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1268	ND	0.79	mg/Kg	8/24/2016	AB	8/25/2016	EH

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Project: **150794 (Scranton Lace)**

Analytical Results

Client Sample Description 1-13-10B ***Collected:*** 8/12/2016 ***Lab ID:*** *0010*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	97	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1221	ND	97	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1232	ND	97	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1242	ND	97	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1248	ND	97	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1254	ND	97	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1260	800	97	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1262	ND	97	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1268	ND	97	mg/Kg	8/24/2016	AB	8/25/2016	EH

Client Sample Description 1-13-11B ***Collected:*** 8/12/2016 ***Lab ID:*** *0011*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.98	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1221	ND	0.98	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1232	ND	0.98	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1242	ND	0.98	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1248	ND	0.98	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1254	ND	0.98	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1260	ND	0.98	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1262	ND	0.98	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1268	ND	0.98	mg/Kg	8/24/2016	AB	8/25/2016	EH

Client Sample Description 1-13-12B ***Collected:*** 8/12/2016 ***Lab ID:*** *0012*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.99	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1221	ND	0.99	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1232	ND	0.99	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1242	ND	0.99	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1248	ND	0.99	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1254	ND	0.99	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1260	ND	0.99	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1262	ND	0.99	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1268	ND	0.99	mg/Kg	8/24/2016	AB	8/25/2016	EH

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Project: **150794 (Scranton Lace)**

Analytical Results

Client Sample Description 1-13-16B ***Collected:*** 8/12/2016 ***Lab ID:*** *0013*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	9.9	mg/Kg	8/24/2016	AB	8/26/2016	EH
3540C/8082A	Aroclor-1221	ND	9.9	mg/Kg	8/24/2016	AB	8/26/2016	EH
3540C/8082A	Aroclor-1232	ND	9.9	mg/Kg	8/24/2016	AB	8/26/2016	EH
3540C/8082A	Aroclor-1242	ND	9.9	mg/Kg	8/24/2016	AB	8/26/2016	EH
3540C/8082A	Aroclor-1248	ND	9.9	mg/Kg	8/24/2016	AB	8/26/2016	EH
3540C/8082A	Aroclor-1254	ND	9.9	mg/Kg	8/24/2016	AB	8/26/2016	EH
3540C/8082A	Aroclor-1260	150	9.9	mg/Kg	8/24/2016	AB	8/26/2016	EH
3540C/8082A	Aroclor-1262	ND	9.9	mg/Kg	8/24/2016	AB	8/26/2016	EH
3540C/8082A	Aroclor-1268	ND	9.9	mg/Kg	8/24/2016	AB	8/26/2016	EH

Client Sample Description 1-13-17B ***Collected:*** 8/12/2016 ***Lab ID:*** *0014*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.98	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1221	ND	0.98	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1232	ND	0.98	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1242	ND	0.98	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1248	ND	0.98	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1254	ND	0.98	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1260	ND	0.98	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1262	ND	0.98	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1268	ND	0.98	mg/Kg	8/24/2016	AB	8/25/2016	EH

Client Sample Description 1-13-27B ***Collected:*** 8/12/2016 ***Lab ID:*** *0015*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.98	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1221	ND	0.98	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1232	ND	0.98	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1242	ND	0.98	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1248	ND	0.98	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1254	ND	0.98	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1260	ND	0.98	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1262	ND	0.98	mg/Kg	8/24/2016	AB	8/25/2016	EH
3540C/8082A	Aroclor-1268	ND	0.98	mg/Kg	8/24/2016	AB	8/25/2016	EH

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Definitions:

ND - indicates that the analyte was not detected at the reporting limit
RL - Reporting Limit (Analytical)

COCCIARDI and Associates, Inc.

Safety • Environmental Health • Emergency Preparedness
Consulting and Training

Attachment IV A

Laboratory Quality Control Documentation

Provided To:

United States Environmental Protection Agency

Notification and Certification in compliance with 40 CFR 761.61(a)(3)

Cocciardi Project No. 150794

EMSL Analytical Inc.

SOIL / SOLID SURROGATE RECOVERY

Lab Name: EMSL Analytical

*** : Values outside of QC limits**

D: Surrogate diluted out

	Compound Name:	TCX	TCX2	DCB	DCB2	**Total Out**
	CAS #:	877-09-8	877-09-8	2051-24-3	2051-24-3	
	QC Limits:	(30-137)	(30-137)	(30-138)	(30-138)	
011604417-1 5X	07/12/16 22:16	88 D	86 D	110 D	113 D	0
011604417-2 5X	07/12/16 22:45	92 D	90 D	108 D	112 D	0
011604417-3 5X	07/12/16 23:13	85 D	83 D	107 D	110 D	0
011604417-4 5X	07/12/16 23:42	82 D	80 D	103 D	105 D	0
MB 1 OP 3423-50	07/12/16 21:19	88	84	104	98	0
LCS 1 OP 3423-50	07/12/16 21:47	92	84	107	100	0
011604417-7 10X	07/13/16 01:08	92 D	92 D	118 D	126 D	0
011604417-8 10X	07/13/16 01:36	85 D	85 D	113 D	119 D	0
011604417-5 5X	07/13/16 00:11	87 D	86 D	107 D	111 D	0
011604417-6 8X	07/13/16 00:39	84 D	84 D	115 D	121 D	0
011604417-9 10X	07/13/16 02:05	93 D	92 D	115 D	120 D	0
011604417-10 5X	07/13/16 02:34	80 D	79 D	108 D	111 D	0
011604417-12 MS	07/13/16 05:25	101 D	95 D	123 D	128 D	0
011604417-12	07/13/16 05:54	100 D	97 D	123 D	127 D	0
011604417-12 8X	07/13/16 06:22	89 D	88 D	116 D	122 D	0
011604417-13 10X	07/13/16 06:51	96 D	92 D	125 D	124 D	0
011604417-14 10X	07/13/16 19:02	90 D	90 D	113 D	118 D	0
011604417-11 4X	07/13/16 07:21	80 D	79 D	109 D	113 D	0
011604417-15 10X	07/13/16 19:30	91 D	91 D	121 D	126 D	0
011604417-16 2X	07/13/16 19:59	92 D	89 D	98 D	98 D	0
011604417-17 10X	07/13/16 20:27	88 D	88 D	123 D	128 D	0
011604417-18 10X	07/13/16 20:56	88 D	87 D	118 D	125 D	0
011604417-19 10X	07/13/16 21:24	94 D	94 D	123 D	127 D	0
011604417-20 4X	07/13/16 21:53	85 D	83 D	110 D	114 D	0

TCX=Tetrachloro-m-xylene
DCB=Decachlorobiphenyl

EMSL Analytical Inc.

PCB ORGANICS ANALYSIS DATA SHEET

		Customer Sample#:	MB 1 OP 3423-50 CU
Lab Name:	EMSL Analytical		
EMSL Sample ID:		**Project:**	
Lab File ID:	Y45121.D	**Sample Matrix:**	SOIL / SOLID
Instrument ID:	ECD-Y	**Sampling Date:**	12:00:00 AM
Analyst:	EH	**Date Extracted:**	7/12/2016
GC Column:	CLPest I (0.25 mm)	**Analysis Date**	7/12/2016 9:19:19 PM
GC Column 2:	CLPest II (0.25 mm)	**Sample wt/vol:**	10 G
% Moisture:	0	**Dilution Factor:**	1
PH:	0	**Concentrated Extract Vol:**	10 (mL)
GPC Cleanup(Y/N):	N	**Injection Volume:**	1 (ul)
Extraction Type:	3550C	**Sulfur Cleanup:**	N
Method:	SW846 8081b/8082a		

CAS NO	COMPOUND	Report Limit (mg/Kg)	CONC. (mg/Kg)	Q
12674-11-2	Aroclor 1016	0.050		U
11104-28-2	Aroclor 1221	0.050		U
11141-16-5	Aroclor 1232	0.050		U
53469-21-9	Aroclor 1242	0.050		U
12672-29-6	Aroclor 1248	0.050		U
11097-69-1	Aroclor 1254	0.050		U
11096-82-5	Aroclor 1260	0.050		U
37324-23-5	Aroclor 1262	0.050		U
11100-14-4	Aroclor 1268	0.050		U

Qualifier Definitions
U = Undetected
B = Compound detected in method blank
E = Estimated value
D = Dilution
P = Results between the two columns differ >40%

EMSL Analytical Inc.

SOIL / SOLID LCS/QCS/ LFB RECOVERY

Lab Name: EMSL Analytical **Original** LCS 1 OP

File ID: Y45121.D/Y45122.D

*** : Values outside of**

	COMPOUND	CAS NO	LOW LIMIT	HIGH LIMIT	SPIKE ADDED mg/Kg	LCS CONC. mg/Kg	LCS REC%
1	Aroclor 1016	12674-11-2	58	123	1.50	1.29	86
2	Aroclor 1260	11096-82-5	63	131	1.50	1.39	92
				Total Out			0 of 2

EMSL Analytical Inc.

SOIL / SOLID MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMSL Analytical **Original** 011604417-12 MS 8X

File ID: Y45135.D/Y45133.D/Y45134.D

*** : Values outside of**

	COMPOUND	CAS NO	LOW LIMIT	HIGH LIMIT	RPD LIMIT	SAMPLE CONC.	MS SPIKE ADDED mg/Kg	MS CONC. mg/Kg	MS REC%	MSD SPIKE ADDED mg/Kg	MSD CONC. mg/Kg	MSD REC%	RPD %
1	Aroclor 1016	12674-11-2	12	164	25	0.00	3.61	3.88	107	3.68	3.86	105	2
2	Aroclor 1260	11096-82-5	43	167	25	0.00	3.61	3.93	109	3.68	3.95	107	1
				Total Out					0 of 2			0 of 2	0 of 2

EMSL Analytical Inc.

SOIL / SOLID SURROGATE RECOVERY

Lab Name: EMSL Analytical

*** : Values outside of QC limits**
D: Surrogate diluted out

	Compound Name:	TCX	TCX2	DCB	DCB2	**Total Out**
	CAS #:	877-09-8	877-09-8	2051-24-3	2051-24-3	
	QC Limits:	(30-137)	(30-137)	(30-138)	(30-138)	
011604417-21 4X	07/14/16 01:13	87 D	86 D	112 D	115 D	0
011604417-22 10X	07/14/16 01:42	89 D	89 D	117 D	123 D	0
MB 1 OP 3442-3	07/14/16 00:16	94	88	109	103	0
LCS 1 OP 3442-3	07/14/16 00:45	94	87	109	102	0
011604417-23 10X	07/14/16 02:10	93 D	94 D	122 D	133 D	0
011604417-24 10X	07/14/16 02:39	91 D	91 D	118 D	128 D	0
011604417-25 10X	07/14/16 03:07	86 D	87 D	117 D	128 D	0
011604417-26 3X	07/14/16 03:36	87 D	85 D	108 D	110 D	0
011604417-27 10X	07/14/16 04:05	91 D	92 D	116 D	121 D	0
011604417-33 MS	07/14/16 16:09	98 D	96 D	123 D	144 D	0
011604417-28 4X	07/14/16 04:33	77 D	76 D	100 D	102 D	0
011604417-33	07/14/16 16:38	88 D	87 D	110 D	116 D	0
011604417-29 5X	07/14/16 05:02	78 D	78 D	105 D	109 D	0
011604417-31 5X	07/14/16 17:07	93 D	90 D	114 D	114 D	0
011604417-30 5X	07/14/16 05:30	96 D	94 D	108 D	115 D	0
011604417-32 10X	07/14/16 17:35	96 D	97 D	116 D	125 D	0
011604417-33 10X	07/14/16 18:04	89 D	90 D	115 D	122 D	0
011604417-34 10X	07/14/16 18:33	89 D	89 D	121 D	128 D	0
011604417-35 10X	07/14/16 19:01	70 D	72 D	88 D	92 D	0
011604417-36 10X	07/14/16 19:30	62 D	63 D	76 D	83 D	0
011604417-37 5X	07/14/16 19:58	83 D	83 D	109 D	114 D	0
011604417-38 4X	07/14/16 20:27	83 D	83 D	107 D	111 D	0
011604417-39 4X	07/14/16 20:56	96 D	95 D	105 D	110 D	0
011604417-40 4X	07/14/16 21:24	84 D	84 D	109 D	113 D	0

TCX=Tetrachloro-m-xylene
DCB=Decachlorobiphenyl

EMSL Analytical Inc.

PCB ORGANICS ANALYSIS DATA SHEET

		Customer Sample#:	MB 1 OP 3442-3 CU
Lab Name:	EMSL Analytical		
EMSL Sample ID:		**Project:**	
Lab File ID:	Y45170.D	**Sample Matrix:**	SOIL / SOLID
Instrument ID:	ECD-Y	**Sampling Date:**	12:00:00 AM
Analyst:	EH	**Date Extracted:**	7/13/2016
GC Column:	CLPest I (0.25 mm)	**Analysis Date**	7/14/2016 12:16:00 AM
GC Column 2:	CLPest II (0.25 mm)	**Sample wt/vol:**	10 G
% Moisture:	0	**Dilution Factor:**	1
PH:	0	**Concentrated Extract Vol:**	10 (mL)
GPC Cleanup(Y/N):	N	**Injection Volume:**	1 (ul)
Extraction Type:	3550C	**Sulfur Cleanup:**	Y
Method:	SW846 8081b/8082a		

CAS NO	COMPOUND	Report Limit (mg/Kg)	CONC. (mg/Kg)	Q
12674-11-2	Aroclor 1016	0.050		U
11104-28-2	Aroclor 1221	0.050		U
11141-16-5	Aroclor 1232	0.050		U
53469-21-9	Aroclor 1242	0.050		U
12672-29-6	Aroclor 1248	0.050		U
11097-69-1	Aroclor 1254	0.050		U
11096-82-5	Aroclor 1260	0.050		U
37324-23-5	Aroclor 1262	0.050		U
11100-14-4	Aroclor 1268	0.050		U

Qualifier Definitions
U = Undetected
B = Compound detected in method blank
E = Estimated value
D = Dilution
P = Results between the two columns differ >40%

EMSL Analytical Inc.

SOIL / SOLID LCS/QCS/ LFB RECOVERY

Lab Name:	EMSL Analytical	**Original**	LCS 1 OP
		File ID:	Y45170.D/Y45171.D
*** : Values outside of**			

	COMPOUND	CAS NO	LOW LIMIT	HIGH LIMIT	SPIKE ADDED mg/Kg	LCS CONC. mg/Kg	LCS REC%
1	Aroclor 1016	12674-11-2	58	123	1.50	1.34	89
2	Aroclor 1260	11096-82-5	63	131	1.50	1.44	96
				Total Out			0 of 2

EMSL Analytical Inc.

SOIL / SOLID MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMSL Analytical **Original** 011604417-33 MS 10X

File ID: Y45205.D/Y45201.D/Y45202.D

*** : Values outside of**

	COMPOUND	CAS NO	LOW LIMIT	HIGH LIMIT	RPD LIMIT	SAMPLE CONC.	MS SPIKE ADDED mg/Kg	MS CONC. mg/Kg	MS REC%	MSD SPIKE ADDED mg/Kg	MSD CONC. mg/Kg	MSD REC%	RPD %
1	Aroclor 1016	12674-11-2	12	164	25	0.00	2.98	3.43	115	2.94	3.08	105	9
2	Aroclor 1260	11096-82-5	43	167	25	0.00	2.98	3.53	119	2.94	3.16	108	10
				Total Out					0 of 2			0 of 2	0 of 2

EMSL Analytical Inc.

SOIL / SOLID SURROGATE RECOVERY

Lab Name: EMSL Analytical

*** : Values outside of QC limits**
D: Surrogate diluted out

	Compound Name:	TCX	TCX2	DCB	DCB2	**Total Out**
	CAS #:	877-09-8	877-09-8	2051-24-3	2051-24-3	
	QC Limits:	(30-137)	(30-137)	(30-138)	(30-138)	
MB 1 OP 3442-5	07/14/16 23:47	88	83	109	102	0
011604417-45	07/15/16 01:13	105 D	102 D	113 D	124 D	0
011604417-41 5X	07/15/16 01:41	85 D	84 D	107 D	110 D	0
LCS 1 OP 3442-5	07/15/16 00:16	99	91	112	106	0
011604417-45 MS	07/15/16 00:44	101 D	98 D	110 D	122 D	0
011604417-42 5X	07/15/16 02:10	94 D	92 D	99 D	108 D	0
011604417-43 5X	07/15/16 02:39	82 D	82 D	95 D	101 D	0
011604417-44 5X	07/15/16 03:07	93 D	91 D	98 D	108 D	0
011604417-45 10X	07/15/16 03:36	93 D	93 D	107 D	116 D	0
011604417-46 10X	07/15/16 04:05	96 D	96 D	119 D	126 D	0
011604417-47 10X	07/15/16 04:33	95 D	96 D	117 D	125 D	0
011604417-48 10X	07/15/16 05:02	93 D	93 D	106 D	117 D	0
011604417-49 5X	07/16/16 04:15	63 D	77 D	74 D	95 D	0
011604417-50 5X	07/16/16 04:44	68 D	83 D	66 D	85 D	0
011604417-51 8X	07/16/16 05:13	73 D	89 D	76 D	100 D	0
011604417-52 5X	07/16/16 05:42	71 D	87 D	74 D	96 D	0
011604417-53 5X	07/16/16 06:11	71 D	88 D	69 D	89 D	0
011604417-54 4X	07/16/16 06:40	74 D	90 D	67 D	87 D	0
011604417-55 4X	07/16/16 07:09	65 D	79 D	64 D	84 D	0
011604417-56 5X	07/16/16 07:38	66 D	81 D	68 D	88 D	0
011604417-57 5X	07/16/16 08:06	73 D	89 D	67 D	88 D	0
011604417-58 5X	07/16/16 08:35	75 D	92 D	66 D	86 D	0
011604417-59 5X	07/16/16 09:04	69 D	86 D	72 D	92 D	0
011604417-60 5X	07/16/16 09:33	63 D	76 D	59 D	78 D	0

TCX=Tetrachloro-m-xylene
DCB=Decachlorobiphenyl

EMSL Analytical Inc.

PCB ORGANICS ANALYSIS DATA SHEET

		Customer Sample#:	MB 1 OP 3442-5 CU
Lab Name:	EMSL Analytical		
EMSL Sample ID:		**Project:**	
Lab File ID:	Y45217.D	**Sample Matrix:**	SOIL / SOLID
Instrument ID:	ECD-Y	**Sampling Date:**	12:00:00 AM
Analyst:	EH	**Date Extracted:**	7/14/2016
GC Column:	CLPest I (0.25 mm)	**Analysis Date**	7/14/2016 11:47:00 PM
GC Column 2:	CLPest II (0.25 mm)	**Sample wt/vol:**	10 G
% Moisture:	0	**Dilution Factor:**	1
PH:	0	**Concentrated Extract Vol:**	10 (mL)
GPC Cleanup(Y/N):	N	**Injection Volume:**	1 (ul)
Extraction Type:	3550C	**Sulfur Cleanup:**	Y
Method:	SW846 8081/8082		

CAS NO	COMPOUND	Report Limit (mg/Kg)	CONC. (mg/Kg)	Q
12674-11-2	Aroclor 1016	0.050		U
11104-28-2	Aroclor 1221	0.050		U
11141-16-5	Aroclor 1232	0.050		U
53469-21-9	Aroclor 1242	0.050		U
12672-29-6	Aroclor 1248	0.050		U
11097-69-1	Aroclor 1254	0.050		U
11096-82-5	Aroclor 1260	0.050		U
37324-23-5	Aroclor 1262	0.050		U
11100-14-4	Aroclor 1268	0.050		U

Qualifier Definitions
U = Undetected
B = Compound detected in method blank
E = Estimated value
D = Dilution
P = Results between the two columns differ >40%

EMSL Analytical Inc.

SOIL / SOLID LCS/QCS/ LFB RECOVERY

Lab Name: EMSL Analytical **Original** LCS 1 OP

File ID: Y45217.D/Y45218.D

*** : Values outside of**

	COMPOUND	CAS NO	LOW LIMIT	HIGH LIMIT	SPIKE ADDED mg/Kg	LCS CONC. mg/Kg	LCS REC%
1	Aroclor 1016	12674-11-2	58	123	1.50	1.37	91
2	Aroclor 1260	11096-82-5	63	131	1.50	1.45	97
				Total Out			0 of 2

EMSL Analytical Inc.

SOIL / SOLID MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMSL Analytical **Original** 011604417-45 MS 10X

File ID: Y45225.D/Y45219.D/Y45220.D

*** : Values outside of**

	COMPOUND	CAS NO	LOW LIMIT	HIGH LIMIT	RPD LIMIT	SAMPLE CONC.	MS SPIKE ADDED mg/Kg	MS CONC. mg/Kg	MS REC%	MSD SPIKE ADDED mg/Kg	MSD CONC. mg/Kg	MSD REC%	RPD %
1	Aroclor 1016	12674-11-2	12	164	25	0.00	2.97	3.69	124	2.93	3.74	128	3
2	Aroclor 1260	11096-82-5	43	167	25	0.00	2.97	3.14	106	2.93	3.15	107	2
				Total Out					0 of 2			0 of 2	0 of 2

EMSL Analytical Inc.

SOIL / SOLID SURROGATE RECOVERY

Lab Name: EMSL Analytical

*** : Values outside of QC limits**
D: Surrogate diluted out

	Compound Name:	TCX	TCX2	DCB	DCB2	**Total Out**
	CAS #:	877-09-8	877-09-8	2051-24-3	2051-24-3	
	QC Limits:	(30-137)	(30-137)	(30-138)	(30-138)	
011604417-66	07/16/16 13:23	98 D	100 D	80 D	88 D	0
011604417-61 4X	07/16/16 13:51	81 D	85 D	86 D	92 D	0
011604417-74 5X	07/16/16 22:01	78 D	82 D	87 D	92 D	0
011604417-75 5X	07/16/16 22:30	72 D	75 D	71 D	77 D	0
011604417-76 5X	07/16/16 22:59	73 D	77 D	81 D	86 D	0
011604417-77 5X	07/16/16 23:28	77 D	80 D	84 D	90 D	0
MB 1 OP 3442-8	07/16/16 11:57	70	71	82	80	0
011604417-78 5X	07/16/16 23:57	79 D	82 D	84 D	89 D	0
LCS 1 OP 3442-8	07/16/16 12:25	87	85	86	85	0
011604417-66 MS	07/16/16 12:54	94 D	97 D	75 D	85 D	0
011604417-62 4X	07/16/16 14:20	82 D	87 D	81 D	87 D	0
011604417-63 4X	07/16/16 14:49	88 D	92 D	76 D	83 D	0
011604417-64 5X	07/16/16 15:17	81 D	85 D	79 D	82 D	0
011604417-65 5X	07/16/16 15:47	85 D	87 D	85 D	91 D	0
011604417-66 5X	07/16/16 16:15	94 D	96 D	79 D	87 D	0
011604417-67 5X	07/16/16 16:44	84 D	83 D	88 D	94 D	0
011604417-68 5X	07/16/16 17:13	85 D	90 D	65 D	72 D	0
011604417-69 5X	07/16/16 19:37	78 D	80 D	75 D	81 D	0
011604417-70 5X	07/16/16 20:06	79 D	83 D	88 D	93 D	0
011604417-71 5X	07/16/16 20:34	81 D	85 D	90 D	96 D	0
011604417-72 5X	07/16/16 21:03	71 D	75 D	75 D	81 D	0
011604417-73 5X	07/16/16 21:32	68 D	71 D	76 D	81 D	0
011604417-79 5X	07/17/16 00:26	88 D	92 D	90 D	98 D	0
011604417-80 4X	07/17/16 00:55	86 D	90 D	83 D	89 D	0

TCX=Tetrachloro-m-xylene
DCB=Decachlorobiphenyl

EMSL Analytical Inc.

PCB ORGANICS ANALYSIS DATA SHEET

		Customer Sample#:	MB 1 OP 3442-8 CU
Lab Name:	EMSL Analytical		
EMSL Sample ID:		**Project:**	
Lab File ID:	Y45287.D	**Sample Matrix:**	SOIL / SOLID
Instrument ID:	ECD-Y	**Sampling Date:**	12:00:00 AM
Analyst:	EH	**Date Extracted:**	7/15/2016
GC Column:	CLPest I (0.25 mm)	**Analysis Date**	7/16/2016 11:57:00 AM
GC Column 2:	CLPest II (0.25 mm)	**Sample wt/vol:**	10 G
% Moisture:	0	**Dilution Factor:**	1
PH:	0	**Concentrated Extract Vol:**	10 (mL)
GPC Cleanup(Y/N):	N	**Injection Volume:**	1 (ul)
Extraction Type:	3550C	**Sulfur Cleanup:**	Y
Method:	SW846 8081/8082		

CAS NO	COMPOUND	Report Limit (mg/Kg)	CONC. (mg/Kg)	Q
12674-11-2	Aroclor 1016	0.050		U
11104-28-2	Aroclor 1221	0.050		U
11141-16-5	Aroclor 1232	0.050		U
53469-21-9	Aroclor 1242	0.050		U
12672-29-6	Aroclor 1248	0.050		U
11097-69-1	Aroclor 1254	0.050		U
11096-82-5	Aroclor 1260	0.050		U
37324-23-5	Aroclor 1262	0.050		U
11100-14-4	Aroclor 1268	0.050		U

Qualifier Definitions
U = Undetected
B = Compound detected in method blank
E = Estimated value
D = Dilution
P = Results between the two columns differ >40%

EMSL Analytical Inc.

SOIL / SOLID LCS/QCS/ LFB RECOVERY

Lab Name: EMSL Analytical **Original** LCS 1 OP

File ID: Y45287.D/Y45288.D

*** : Values outside of**

	COMPOUND	CAS NO	LOW LIMIT	HIGH LIMIT	SPIKE ADDED mg/Kg	LCS CONC. mg/Kg	LCS REC%
1	Aroclor 1016	12674-11-2	58	123	1.50	1.24	83
2	Aroclor 1260	11096-82-5	63	131	1.50	1.30	87
				Total Out			0 of 2

EMSL Analytical Inc.

SOIL / SOLID MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMSL Analytical **Original** 011604417-66 MS 5X

File ID: Y45296.D/Y45289.D/Y45290.D

*** : Values outside of**

	COMPOUND	CAS NO	LOW LIMIT	HIGH LIMIT	RPD LIMIT	SAMPLE CONC.	MS SPIKE ADDED mg/Kg	MS CONC. mg/Kg	MS REC%	MSD SPIKE ADDED mg/Kg	MSD CONC. mg/Kg	MSD REC%	RPD %
1	Aroclor 1016	12674-11-2	12	164	25	0.00	4.81	5.60	116	4.76	5.74	121	3
2	Aroclor 1260	11096-82-5	43	167	25	0.958	4.81	4.68	77	4.76	4.76	80	3
				Total Out					0 of 2			0 of 2	0 of 2

EMSL Analytical Inc.

SOIL / SOLID SURROGATE RECOVERY

Lab Name: EMSL Analytical

*** : Values outside of QC limits**
D: Surrogate diluted out

	Compound Name:	TCX	TCX2	DCB	DCB2	**Total Out**
	CAS #:	877-09-8	877-09-8	2051-24-3	2051-24-3	
	QC Limits:	(30-137)	(30-137)	(30-138)	(30-138)	
MB 1 OP 3442-18	07/21/16 13:01	87	83	83	79	0
LCS 1 OP 3442-18	07/21/16 13:30	90	84	85	83	0
011604417-81 3X	07/21/16 13:58	76 D	76 D	80 D	84 D	0
011604417-82 5X	07/21/16 14:27	84 D	84 D	80 D	85 D	0
011604417-83 5X	07/21/16 14:56	83 D	83 D	82 D	90 D	0
011604417-84 5X	07/21/16 15:24	89 D	89 D	65 D	77 D	0
011604417-85 4X	07/21/16 15:53	81 D	79 D	83 D	92 D	0
011604417-86 8X	07/21/16 16:21	93 D	93 D	92 D	103 D	0
011604417-86 MS	07/21/16 16:50	88 D	86 D	88 D	99 D	0
011604417-86	07/21/16 17:19	93 D	92 D	90 D	102 D	0
011604417-86	07/22/16 09:00	D	D	D	D	0

TCX=Tetrachloro-m-xylene
DCB=Decachlorobiphenyl

EMSL Analytical Inc.

PCB ORGANICS ANALYSIS DATA SHEET

		Customer Sample#:	MB 1 OP 3442-18 CU
Lab Name:	EMSL Analytical		
EMSL Sample ID:		**Project:**	
Lab File ID:	Y45431.D	**Sample Matrix:**	SOIL / SOLID
Instrument ID:	ECD-Y	**Sampling Date:**	12:00:00 AM
Analyst:	EH	**Date Extracted:**	7/21/2016
GC Column:	CLPest I (0.25 mm)	**Analysis Date**	7/21/2016 1:01:43 PM
GC Column 2:	CLPest II (0.25 mm)	**Sample wt/vol:**	10 G
% Moisture:	0	**Dilution Factor:**	1
PH:	0	**Concentrated Extract Vol:**	10 (mL)
GPC Cleanup(Y/N):	N	**Injection Volume:**	1 (ul)
Extraction Type:	3550C	**Sulfur Cleanup:**	Y
Method:	SW846 8081/8082		

CAS NO	COMPOUND	Report Limit (mg/Kg)	CONC. (mg/Kg)	Q
12674-11-2	Aroclor 1016	0.050		U
11104-28-2	Aroclor 1221	0.050		U
11141-16-5	Aroclor 1232	0.050		U
53469-21-9	Aroclor 1242	0.050		U
12672-29-6	Aroclor 1248	0.050		U
11097-69-1	Aroclor 1254	0.050		U
11096-82-5	Aroclor 1260	0.050		U
37324-23-5	Aroclor 1262	0.050		U
11100-14-4	Aroclor 1268	0.050		U

Qualifier Definitions
U = Undetected
B = Compound detected in method blank
E = Estimated value
D = Dilution
P = Results between the two columns differ >40%

EMSL Analytical Inc.

SOIL / SOLID LCS/QCS/ LFB RECOVERY

Lab Name: EMSL Analytical **Original** LCS 1 OP

File ID: Y45431.D/Y45432.D

*** : Values outside of**

	COMPOUND	CAS NO	LOW LIMIT	HIGH LIMIT	SPIKE ADDED mg/Kg	LCS CONC. mg/Kg	LCS REC%
1	Aroclor 1016	12674-11-2	58	123	1.50	1.34	90
2	Aroclor 1260	11096-82-5	63	131	1.50	1.40	93
				Total Out			0 of 2

EMSL Analytical Inc.

SOIL PCB MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMSL Analytical **Original** 011604417-86 MS 5X

File ID: Y45437.D/Y45439.D/Y45440.D

*** : Values outside of**

	COMPOUND	CAS NO	LOW LIMIT	HIGH LIMIT	RPD LIMIT	SAMPLE CONC.	MS SPIKE ADDED mg/Kg	MS CONC. mg/Kg	MS REC%	MSD SPIKE ADDED mg/Kg	MSD CONC. mg/Kg	MSD REC%	RPD %
1	Aroclor 1016	12674-11-2	12	164	25	0.000	4.762	4.922	103	4.934	5.211	106	2
2	Aroclor 1260	11096-82-5	43	167	25	0.000	4.762	285.1	5988 *	4.934	271.4	5501 *	8
				Total Out					1 of 2			1 of 2	0 of 2

- **The Matrix Spike and Matrix Spike Duplicate (MS/MSD) recovery failed method criteria due to high concentration of Aroclor 1260, in the unspiked sample.**
- **The laboratory control sample (LCS) recoveries fell within control limits.**

EMSL Analytical Inc.

SOIL / SOLID SURROGATE RECOVERY

Lab Name: EMSL Analytical

*** : Values outside of QC limits**
D: Surrogate diluted out

	Compound Name:	TCX	TCX2	DCB	DCB2	**Total Out**
	CAS #:	877-09-8	877-09-8	2051-24-3	2051-24-3	
	QC Limits:	(30-137)	(30-137)	(30-138)	(30-138)	
MB 1 OP 3442-44	08/05/16 13:02	65	66	64	62	0
LCS 1 OP 3442-44	08/05/16 13:30	72	72	70	68	0
011604743-1 100X	08/05/16 13:57	D	D	D	D	0
MB 1 OP 3442-44	08/05/16 10:12	91	76	81	75	0
011604917-2 4X	08/05/16 10:16	37 D	36 D	34 D	35 D	0
LCS 1 OP 3442-44	08/05/16 10:40	97	80	86	82	0
011604796-1 5X	08/05/16 10:43	63 D	63 D	44 D	45 D	0
011604796-2 4X	08/05/16 11:11	75 D	76 D	63 D	62 D	0
011604796-3 4X	08/05/16 11:39	61 D	63 D	49 D	46 D	0
011604796-4 5X	08/05/16 12:06	68 D	68 D	60 D	57 D	0
011604840-2 8X	08/05/16 16:16	97 D	95 D	78 D	78 D	0
011604840-3 8X	08/05/16 16:43	98 D	97 D	90 D	86 D	0
011604840-4 8X	08/05/16 17:11	99 D	98 D	87 D	83 D	0
011604840-5 8X	08/05/16 17:39	96 D	95 D	83 D	80 D	0
011604840-6 8X	08/05/16 18:07	96 D	94 D	86 D	91 D	0
011604840-7 8X	08/05/16 18:34	100 D	99 D	88 D	92 D	0
011604840-8 8X	08/05/16 19:02	99 D	99 D	87 D	85 D	0
011604840-10 8X	08/05/16 19:57	100 D	100 D	90 D	88 D	0
011605002-1 5X	08/05/16 09:43	89 D	78 D	79 D	79 D	0
011604917-1 8X	08/05/16 09:46	81 D	80 D	80 D	78 D	0
011604840-4 MS	08/08/16 17:30	103 D	99 D	90 D	89 D	0
011604840-4 MSD	08/08/16 17:58	99 D	95 D	88 D	86 D	0
011604840-1 10X	08/08/16 18:26	99 D	93 D	84 D	86 D	0
011604840-9 2kX	08/08/16 18:53	D	D	D	D	0
011604840-11	08/08/16 19:21	D	D	D	D	0
011604840-12 2kX	08/08/16 19:49	D	D	D	D	0

TCX=Tetrachloro-m-xylene
DCB=Decachlorobiphenyl

EMSL Analytical Inc.

PCB ORGANICS ANALYSIS DATA SHEET

		Customer Sample#:	MB 1 OP 3442-44 CU
Lab Name:	EMSL Analytical		
EMSL Sample ID:		**Project:**	
Lab File ID:	Y45764.D	**Sample Matrix:**	SOIL / SOLID
Instrument ID:	ECD-Y	**Sampling Date:**	12:00:00 AM
Analyst:	EH	**Date Extracted:**	8/4/2016
GC Column:	CLPest I (0.25 mm)	**Analysis Date**	8/5/2016 10:12:00 AM
GC Column 2:	CLPest II (0.25 mm)	**Sample wt/vol:**	10 G
% Moisture:	0	**Dilution Factor:**	1
PH:	0	**Concentrated Extract Vol:**	10 (mL)
GPC Cleanup(Y/N):	N	**Injection Volume:**	1 (ul)
Extraction Type:	3540C	**Sulfur Cleanup:**	Y
Method:	SW846 8081/8082		

CAS NO	COMPOUND	Report Limit (mg/Kg)	CONC. (mg/Kg)	Q
12674-11-2	Aroclor 1016	0.050		U
11104-28-2	Aroclor 1221	0.050		U
11141-16-5	Aroclor 1232	0.050		U
53469-21-9	Aroclor 1242	0.050		U
12672-29-6	Aroclor 1248	0.050		U
11097-69-1	Aroclor 1254	0.050		U
11096-82-5	Aroclor 1260	0.050		U
37324-23-5	Aroclor 1262	0.050		U
11100-14-4	Aroclor 1268	0.050		U

Qualifier Definitions
U = Undetected
B = Compound detected in method blank
E = Estimated value
D = Dilution
P = Results between the two columns differ >40%

EMSL Analytical Inc.

SOIL / SOLID LCS/QCS/ LFB RECOVERY

Lab Name: EMSL Analytical **Original** LCS 1 OP

File ID: Y45764.D/Y45765.D

*** : Values outside of**

	COMPOUND	CAS NO	LOW LIMIT	HIGH LIMIT	SPIKE ADDED mg/Kg	LCS CONC. mg/Kg	LCS REC%
1	Aroclor 1016	12674-11-2	58	123	1.50	1.44	96
2	Aroclor 1260	11096-82-5	63	131	1.50	1.41	94
				Total Out			0 of 2

EMSL Analytical Inc.

SOIL / SOLID MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMSL Analytical **Original** 011604840-4 MS 8X CU

File ID: X51179.D/X51211.D/X51212.D

*** : Values outside of**

	COMPOUND	CAS NO	LOW LIMIT	HIGH LIMIT	RPD LIMIT	SAMPLE CONC.	MS SPIKE ADDED mg/Kg	MS CONC. mg/Kg	MS REC%	MSD SPIKE ADDED mg/Kg	MSD CONC. mg/Kg	MSD REC%	RPD %
1	Aroclor 1016	12674-11-2	12	164	25	0.00	3.68	7.73	210 *	3.71	7.46	201 *	5
2	Aroclor 1260	11096-82-5	43	167	25	0.00	3.68	4.08	111	3.71	3.87	104	6
				Total Out					1 of 2			1 of 2	0 of 2

- **The Matrix Spike and Matrix Spike Duplicate (MS/MSD) recovery failed method criteria due to high concentration of Aroclor 1248 in the unspiked sample.**

- **The laboratory control sample (LCS) recoveries fell within control limits.**

EMSL Analytical Inc.

SOIL / SOLID SURROGATE RECOVERY

Lab Name: EMSL Analytical

*** : Values outside of QC limits**
D: Surrogate diluted out

	Compound Name:	TCX	TCX2	DCB	DCB2	**Total Out**
	CAS #:	877-09-8	877-09-8	2051-24-3	2051-24-3	
	QC Limits:	(30-137)	(30-137)	(30-138)	(30-138)	
011605058-1 4X	08/08/16 13:34	62 D	65 D	58 D	61 D	0
MB 1 OP 3442-47	08/08/16 13:57	69	70	66	53	0
011605058-1 MSD	08/08/16 22:07	60 D	60 D	40 D	41 D	0
011604936-1 5X	08/08/16 22:35	86 D	84 D	60 D	63 D	0
011604968-1 3X	08/08/16 23:02	77 D	79 D	63 D	61 D	0
011604840-13 8X	08/08/16 23:30	93 D	92 D	71 D	67 D	0
011604840-14 8X	08/08/16 23:58	100 D	98 D	82 D	90 D	0
LCS 1 OP 3442-47	08/08/16 14:21	65	63	69	57	0
011605058-1 MS	08/08/16 21:39	58 D	56 D	42 D	43 D	0
011604840-19 1kX	08/09/16 10:06	D	D	D	D	0
011604840-15 8X	08/09/16 00:26	98 D	95 D	86 D	97 D	0
011604840-16 50X	08/09/16 08:43	D	D	D	D	0
011604840-17 50X	08/09/16 09:10	D	D	D	D	0
011604840-18 1kX	08/09/16 09:38	D	D	D	D	0

TCX=Tetrachloro-m-xylene
DCB=Decachlorobiphenyl

EMSL Analytical Inc.

PCB ORGANICS ANALYSIS DATA SHEET

		Customer Sample#:	MB 1 OP 3442-47 CU
Lab Name:	EMSL Analytical		
EMSL Sample ID:		**Project:**	
Lab File ID:	G12330.D	**Sample Matrix:**	SOIL / SOLID
Instrument ID:	GC-ECD-G	**Sampling Date:**	12:00:00 AM
Analyst:	EH	**Date Extracted:**	8/5/2016
GC Column:	CLPest I (0.32 mm)	**Analysis Date**	8/8/2016 1:57:00 PM
GC Column 2:	CLPest II (0.32 mm)	**Sample wt/vol:**	10 G
% Moisture:	0	**Dilution Factor:**	1
PH:	0	**Concentrated Extract Vol:**	10 (mL)
GPC Cleanup(Y/N):	N	**Injection Volume:**	1 (ul)
Extraction Type:	3540C	**Sulfur Cleanup:**	Y
Method:	SW846 8081/8082		

CAS NO	COMPOUND	Report Limit (mg/Kg)	CONC. (mg/Kg)	Q
12674-11-2	Aroclor 1016	0.050		U
11104-28-2	Aroclor 1221	0.050		U
11141-16-5	Aroclor 1232	0.050		U
53469-21-9	Aroclor 1242	0.050		U
12672-29-6	Aroclor 1248	0.050		U
11097-69-1	Aroclor 1254	0.050		U
11096-82-5	Aroclor 1260	0.050		U
37324-23-5	Aroclor 1262	0.050		U
11100-14-4	Aroclor 1268	0.050		U

Qualifier Definitions
U = Undetected
B = Compound detected in method blank
E = Estimated value
D = Dilution
P = Results between the two columns differ >40%

EMSL Analytical Inc.

SOIL / SOLID LCS/QCS/ LFB RECOVERY

Lab Name: EMSL Analytical **Original** LCS 1 OP

File ID: G12330.D/G12331.D

*** : Values outside of**

	COMPOUND	CAS NO	LOW LIMIT	HIGH LIMIT	SPIKE ADDED mg/Kg	LCS CONC. mg/Kg	LCS REC%
1	Aroclor 1016	12674-11-2	58	123	1.50	1.08	72
2	Aroclor 1260	11096-82-5	63	131	1.50	1.10	73
				Total Out			0 of 2

EMSL Analytical Inc.

SOIL / SOLID MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMSL Analytical **Original** 011605058-1 MS 4X CU

File ID: G12329.D/X51220.D/X51221.D

*** : Values outside of**

	COMPOUND	CAS NO	LOW LIMIT	HIGH LIMIT	RPD LIMIT	SAMPLE CONC.	MS SPIKE ADDED mg/Kg	MS CONC. mg/Kg	MS REC%	MSD SPIKE ADDED mg/Kg	MSD CONC. mg/Kg	MSD REC%	RPD %
1	Aroclor 1016	12674-11-2	12	164	25	0.00	7.35	4.65	63	7.25	4.83	67	5
2	Aroclor 1260	11096-82-5	43	167	25	0.00	7.35	3.81	52	7.25	3.82	53	2
				Total Out					0 of 2			0 of 2	0 of 2

EMSL Analytical Inc.

SOIL / SOLID SURROGATE RECOVERY

Lab Name: EMSL Analytical

*** : Values outside of QC limits**
D: Surrogate diluted out

	Compound Name:	TCX	TCX2	DCB	DCB2	**Total Out**
	CAS #:	877-09-8	877-09-8	2051-24-3	2051-24-3	
	QC Limits:	(30-137)	(30-137)	(30-138)	(30-138)	
011605085-8 10X	08/10/16 22:05	91 D	111 D	104 D	116 D	0
011605085-9 10X	08/10/16 22:35	91 D	107 D	107 D	110 D	0
011605085-11 10X	08/10/16 23:36	89 D	104 D	96 D	106 D	0
MB 1 OP 3483-5	08/10/16 17:32	75	74	81	75	0
LCS 1 OP 3483-5	08/10/16 18:02	74	71	81	77	0
011605085-1 10X	08/10/16 18:33	91 D	105 D	101 D	112 D	0
011605085-2 10X	08/10/16 19:03	92 D	105 D	85 D	108 D	0
011605085-7 10X	08/10/16 21:35	90 D	105 D	100 D	108 D	0
011605085-4 10kX	08/11/16 10:06	D	D	D	D	0
011604840-23 8X	08/11/16 10:29	82 D	78 D	77 D	96 D	0
011605085-5 2kX	08/11/16 10:37	D	D	D	D	0
011604840-24 8X	08/11/16 10:53	78 D	44 D	72 D	102 D	0
011605085-6 2kX	08/11/16 11:07	D	D	D	D	0
011604840-25 8X	08/11/16 11:16	89 D	88 D	78 D	99 D	0
011605085-10	08/11/16 11:38	D	D	D	D	0
011604840-26 8X	08/11/16 11:40	92 D	92 D	88 D	106 D	0
011604840-27 8X	08/11/16 12:04	61 D	90 D	87 D	114 D	0
011605085-13 MS	08/11/16 00:06	95 D	108 D	104 D	112 D	0
011605085-14	08/11/16 00:35	95 D	108 D	104 D	117 D	0
011604840-20 1kX	08/11/16 14:27	D	D	D	D	0
011604840-21	08/11/16 14:50	D	D	D	D	0
011604840-22 40X	08/11/16 15:14	D	D	D	D	0
011605085-3 200X	08/11/16 09:36	D	D	D	D	0

TCX=Tetrachloro-m-xylene
DCB=Decachlorobiphenyl

EMSL Analytical Inc.

PCB ORGANICS ANALYSIS DATA SHEET

		Customer Sample#:	MB 1 OP 3483-5 CU
Lab Name:	EMSL Analytical		
EMSL Sample ID:		**Project:**	
Lab File ID:	Y45857.D	**Sample Matrix:**	SOIL / SOLID
Instrument ID:	ECD-Y	**Sampling Date:**	12:00:00 AM
Analyst:	EH	**Date Extracted:**	8/9/2016
GC Column:	CLPest I (0.25 mm)	**Analysis Date**	8/10/2016 5:32:19 PM
GC Column 2:	CLPest II (0.25 mm)	**Sample wt/vol:**	10 G
% Moisture:	0	**Dilution Factor:**	1
PH:	0	**Concentrated Extract Vol:**	10 (mL)
GPC Cleanup(Y/N):	N	**Injection Volume:**	1 (ul)
Extraction Type:	3540C	**Sulfur Cleanup:**	Y
Method:	SW846 8081b/8082a		

CAS NO	COMPOUND	Report Limit (mg/Kg)	CONC. (mg/Kg)	Q
12674-11-2	Aroclor 1016	0.050		U
11104-28-2	Aroclor 1221	0.050		U
11141-16-5	Aroclor 1232	0.050		U
53469-21-9	Aroclor 1242	0.050		U
12672-29-6	Aroclor 1248	0.050		U
11097-69-1	Aroclor 1254	0.050		U
11096-82-5	Aroclor 1260	0.050		U
37324-23-5	Aroclor 1262	0.050		U
11100-14-4	Aroclor 1268	0.050		U

Qualifier Definitions
U = Undetected
B = Compound detected in method blank
E = Estimated value
D = Dilution
P = Results between the two columns differ >40%

EMSL Analytical Inc.

SOIL / SOLID LCS/QCS/ LFB RECOVERY

Lab Name:	EMSL Analytical	**Original**	LCS 1 OP
		File ID:	Y45857.D/Y45858.D
*** : Values outside of**			

	COMPOUND	CAS NO	LOW LIMIT	HIGH LIMIT	SPIKE ADDED mg/Kg	LCS CONC. mg/Kg	LCS REC%
1	Aroclor 1016	12674-11-2	58	123	1.50	1.11	74
2	Aroclor 1260	11096-82-5	63	131	1.50	1.19	80
				Total Out			0 of 2

EMSL Analytical Inc.

SOIL / SOLID MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMSL Analytical **Original** 011605085-13 MS 10X

File ID: Y45859.D/Y45870.D/Y45871.D

*** : Values outside of**

	COMPOUND	CAS NO	LOW LIMIT	HIGH LIMIT	RPD LIMIT	SAMPLE CONC.	MS SPIKE ADDED mg/Kg	MS CONC. mg/Kg	MS REC%	MSD SPIKE ADDED mg/Kg	MSD CONC. mg/Kg	MSD REC%	RPD %
1	Aroclor 1016	12674-11-2	12	164	25	0.00	1.49	1.82	122	1.48	1.85	125	2
2	Aroclor 1260	11096-82-5	43	167	25	0.00	1.49	1.74	116	1.48	1.77	120	3
				Total Out					0 of 2			0 of 2	0 of 2

EMSL Analytical Inc.

SOIL / SOLID SURROGATE RECOVERY

Lab Name: EMSL Analytical

*** : Values outside of QC limits**
D: Surrogate diluted out

	Compound Name:	TCX	TCX2	DCB	DCB2	**Total Out**
	CAS #:	877-09-8	877-09-8	2051-24-3	2051-24-3	
	QC Limits:	(30-137)	(30-137)	(30-138)	(30-138)	
011604840-30 8X	08/11/16 13:15	86 D	84 D	80 D	101 D	0
011604840-31 8X	08/11/16 13:39	77 D	116 D	102 D	135 D	0
011605093-2 5X	08/11/16 10:06	80 D	80 D	64 D	58 D	0
011605093-3 5X	08/11/16 10:34	89 D	72 D	75 D	78 D	0
011605065-1 5X	08/11/16 11:02	67 D	64 D	62 D	58 D	0
LCS 1 OP 3483-4	08/11/16 11:30	71	70	65	62	0
MB 1 OP 3483-4	08/11/16 11:59	73	73	68	64	0
011604840-28 8X	08/11/16 12:28	89 D	90 D	80 D	101 D	0
011604840-29 8X	08/11/16 12:51	84 D	81 D	77 D	98 D	0
011604840-32 5X	08/11/16 14:03	63 D	66 D	62 D	73 D	0
MB 1 OP 3483-4	08/11/16 08:15	95	97	79	76	0
LCS 1 OP 3483-4	08/11/16 08:43	91	92	77	75	0
011605009-1 4X	08/11/16 09:11	38 D	32 D	33 D	32 D	0
011605093-1 5X	08/11/16 09:39	84 D	82 D	67 D	62 D	0
011604840-32 5X	08/12/16 14:25	61 D	60 D	61 D	60 D	0
011604840-32 5X	08/12/16 14:54	63 D	61 D	59 D	58 D	0

TCX=Tetrachloro-m-xylene
DCB=Decachlorobiphenyl

EMSL Analytical Inc.

PCB ORGANICS ANALYSIS DATA SHEET

		Customer Sample#:	MB 1 OP 3483-4 CU
Lab Name:	EMSL Analytical		
EMSL Sample ID:		**Project:**	
Lab File ID:	X51300.D	**Sample Matrix:**	SOIL / SOLID
Instrument ID:	ECD-X	**Sampling Date:**	12:00:00 AM
Analyst:	EH	**Date Extracted:**	8/9/2016
GC Column:	CLPest I (0.25 mm)	**Analysis Date**	8/11/2016 8:15:50 AM
GC Column 2:	CLPest II (0.25 mm)	**Sample wt/vol:**	10 G
% Moisture:	0	**Dilution Factor:**	1
PH:	0	**Concentrated Extract Vol:**	10 (mL)
GPC Cleanup(Y/N):	N	**Injection Volume:**	1 (ul)
Extraction Type:	3540C	**Sulfur Cleanup:**	Y
Method:	SW846 8081b/8082a		

CAS NO	COMPOUND	Report Limit (mg/Kg)	CONC. (mg/Kg)	Q
12674-11-2	Aroclor 1016	0.050		U
11104-28-2	Aroclor 1221	0.050		U
11141-16-5	Aroclor 1232	0.050		U
53469-21-9	Aroclor 1242	0.050		U
12672-29-6	Aroclor 1248	0.050		U
11097-69-1	Aroclor 1254	0.050		U
11096-82-5	Aroclor 1260	0.050		U
37324-23-5	Aroclor 1262	0.050		U
11100-14-4	Aroclor 1268	0.050		U

Qualifier Definitions
U = Undetected
B = Compound detected in method blank
E = Estimated value
D = Dilution
P = Results between the two columns differ >40%

EMSL Analytical Inc.

SOIL / SOLID LCS/QCS/ LFB RECOVERY

Lab Name:	EMSL Analytical	**Original**	LCS 1 OP
		File ID:	X51300.D/X51301.D
*** : Values outside of**			

	COMPOUND	CAS NO	LOW LIMIT	HIGH LIMIT	SPIKE ADDED mg/Kg	LCS CONC. mg/Kg	LCS REC%
1	Aroclor 1016	12674-11-2	58	123	1.50	1.49	99
2	Aroclor 1260	11096-82-5	63	131	1.50	1.30	86
				Total Out			0 of 2

EMSL Analytical Inc.

SOIL / SOLID MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMSL Analytical **Original** 011604840-32 5X MS

File ID: G12373.D/X51362.D/X51363.D

*** : Values outside of**

	COMPOUND	CAS NO	LOW LIMIT	HIGH LIMIT	RPD LIMIT	SAMPLE CONC.	MS SPIKE ADDED mg/Kg	MS CONC. mg/Kg	MS REC%	MSD SPIKE ADDED mg/Kg	MSD CONC. mg/Kg	MSD REC%	RPD %
1	Aroclor 1016	12674-11-2	12	164	25	0.00	4.92	4.13	84	4.85	4.05	83	1
2	Aroclor 1260	11096-82-5	43	167	25	17.1	4.92	17.6	10 *	4.85	15.1	-40 *	0
				Total Out					1 of 2			1 of 2	0 of 2

- **The Matrix Spike and Matrix Spike Duplicate (MS/MSD) recovery failed method criteria due to high concentration of Aroclor 1260 in the unspiked sample.**
- **The laboratory control sample (LCS) recoveries fell within control limits.**

EMSL Analytical Inc.

SOIL / SOLID SURROGATE RECOVERY

Lab Name: EMSL Analytical

*** : Values outside of QC limits**

D: Surrogate diluted out

	Compound Name:	TCX	TCX2	DCB	DCB2	**Total Out**
	CAS #:	877-09-8	877-09-8	2051-24-3	2051-24-3	
	QC Limits:	(30-137)	(30-137)	(30-138)	(30-138)	
MB 1 OP 3442-22	07/22/16 15:42	81	79	80	78	0
LCS 1 OP 3442-22	07/22/16 16:11	94	88	84	87	0
011604646-4 MS	07/22/16 16:40	89 D	87 D	83 D	94 D	0
011604646-4 MSD	07/22/16 17:08	93 D	90 D	84 D	92 D	0
011604646-1 10X	07/22/16 17:37	99 D	91 D	110 D	110 D	0
011604646-2 10X	07/22/16 18:05	95 D	95 D	96 D	104 D	0
011604646-4 8X	07/22/16 19:03	83 D	83 D	87 D	95 D	0
011604646-5 10X	07/22/16 19:32	88 D	88 D	93 D	100 D	0
011604646-6 10X	07/22/16 20:00	98 D	97 D	98 D	112 D	0
011604646-7 10X	07/22/16 20:29	86 D	85 D	98 D	103 D	0
011604646-8 10X	07/22/16 20:57	95 D	94 D	104 D	105 D	0
011604646-9 10X	07/22/16 21:26	85 D	84 D	95 D	100 D	0
011604646-10 10X	07/22/16 21:54	87 D	86 D	96 D	106 D	0
011604646-12 10X	07/27/16 01:10	107 D	102 D	104 D	106 D	0
011604646-13 10X	07/27/16 01:39	109 D	106 D	103 D	109 D	0
011604646-3 20X	07/27/16 00:12	D	D	D	D	0
011604646-14 10X	07/27/16 02:08	101 D	97 D	106 D	110 D	0
011604646-15 10X	07/27/16 02:37	106 D	107 D	106 D	110 D	0
011604646-16 10X	07/27/16 03:06	102 D	98 D	107 D	110 D	0
011604646-17 10X	07/27/16 03:35	96 D	92 D	105 D	110 D	0
011604646-18 10X	07/27/16 04:03	97 D	93 D	103 D	105 D	0
011604646-19 10X	07/27/16 04:32	98 D	94 D	104 D	107 D	0
011604646-20 10X	07/27/16 05:01	93 D	91 D	102 D	109 D	0
011604646-11 50X	07/27/16 21:04	D	D	D	D	0

TCX=Tetrachloro-m-xylene
DCB=Decachlorobiphenyl

EMSL Analytical Inc.

PCB ORGANICS ANALYSIS DATA SHEET

		Customer Sample#:	MB 1 OP 3442-22 CU
Lab Name:	EMSL Analytical		
EMSL Sample ID:		**Project:**	
Lab File ID:	Y45461.D	**Sample Matrix:**	SOIL / SOLID
Instrument ID:	ECD-Y	**Sampling Date:**	12:00:00 AM
Analyst:	EH	**Date Extracted:**	7/22/2016
GC Column:	CLPest I (0.25 mm)	**Analysis Date**	7/22/2016 3:42:38 PM
GC Column 2:	CLPest II (0.25 mm)	**Sample wt/vol:**	10 G
% Moisture:	0	**Dilution Factor:**	1
PH:	0	**Concentrated Extract Vol:**	10 (mL)
GPC Cleanup(Y/N):	N	**Injection Volume:**	1 (ul)
Extraction Type:	3550C	**Sulfur Cleanup:**	Y
Method:	SW846 8081b/8082a		

CAS NO	COMPOUND	Report Limit (mg/Kg)	CONC. (mg/Kg)	Q
12674-11-2	Aroclor 1016	0.050		U
11104-28-2	Aroclor 1221	0.050		U
11141-16-5	Aroclor 1232	0.050		U
53469-21-9	Aroclor 1242	0.050		U
12672-29-6	Aroclor 1248	0.050		U
11097-69-1	Aroclor 1254	0.050		U
11096-82-5	Aroclor 1260	0.050		U
37324-23-5	Aroclor 1262	0.050		U
11100-14-4	Aroclor 1268	0.050		U

Qualifier Definitions
U = Undetected
B = Compound detected in method blank
E = Estimated value
J = Estimated Concentration. Detected below Practical Quantitation Level
D = Dilution40%

EMSL Analytical Inc.

SOIL / SOLID LCS/QCS/ LFB RECOVERY

	Lab Name:	EMSL Analytical		**Original**	LCS 1 OP		
				File ID:	Y45461.D/Y45462.D		
	*** : Values outside of**						
	COMPOUND	**CAS NO**	**LOW LIMIT**	**HIGH LIMIT**	**SPIKE ADDED mg/Kg**	**LCS CONC. mg/Kg**	**LCS REC%**
1	Aroclor 1016	12674-11-2	58	123	1.500	1.348	90
2	Aroclor 1260	11096-82-5	63	131	1.500	1.354	90
				Total Out			0 of 2

EMSL Analytical Inc.

SOIL / SOLID MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

	Lab Name:	EMSL Analytical		**Original**		011604646-4 MS 4X CU								
				File ID:		Y45468.D/Y45463.D/Y45464.D								
	*** : Values outside of**													
	COMPOUND	**CAS NO**	**LOW LIMIT**	**HIGH LIMIT**	**RPD LIMIT**	**SAMPLE CONC.**	**MS SPIKE ADDED mg/Kg**	**MS CONC. mg/Kg**	**MS REC%**	**MSD SPIKE ADDED mg/Kg**	**MSD CONC. mg/Kg**	**MSD REC%**	**RPD %**
1	Aroclor 1016	12674-11-2	12	164	25	0.000	6.977	8.572	123	7.353	9.563	130	6
2	Aroclor 1260	11096-82-5	43	167	25	0.000	6.977	6.555	94	7.353	7.094	96	3
				Total Out					0 of 2			0 of 2	0 of 2

EMSL Analytical Inc.

SOIL / SOLID SURROGATE RECOVERY

Lab Name: EMSL Analytical

*** : Values outside of QC limits**

D: Surrogate diluted out

	Compound Name:	TCX	TCX2	DCB	DCB2	**Total Out**
	CAS #:	877-09-8	877-09-8	2051-24-3	2051-24-3	
	QC Limits:	(30-137)	(30-137)	(30-138)	(30-138)	
011604646-24 10X	07/28/16 22:23	86 D	85 D	85 D	82 D	0
011604646-25 10X	07/28/16 22:50	85 D	86 D	88 D	84 D	0
011604646-26 10X	07/28/16 23:17	83 D	83 D	89 D	85 D	0
MB 1 OP 3442-33	07/28/16 18:41	74	76	79	79	0
LCS 1 OP 3442-33	07/28/16 19:08	85	87	83	84	0
011604646-31 5kX	07/29/16 13:04	D	D	D	D	0
011604646-29 MS	07/29/16 01:08	94 D	91 D	90 D	87 D	0
011604646-37 50X	07/29/16 13:32	D	D	D	D	0
011604646-29	07/29/16 01:36	97 D	94 D	90 D	89 D	0
011604646-21	07/29/16 11:14	D	D	D	D	0
011604646-22	07/29/16 11:42	D	D	D	D	0
011604646-23	07/29/16 12:09	D	D	D	D	0
011604646-28 10X	07/29/16 00:13	81 D	80 D	81 D	79 D	0
011604646-27	07/29/16 12:36	D	D	D	D	0
011604646-29 10X	07/29/16 00:40	83 D	82 D	85 D	82 D	0
011604646-30 10X	07/29/16 03:55	81 D	81 D	87 D	85 D	0
011604646-32 10X	07/29/16 04:51	93 D	93 D	56 D	58 D	0
011604646-33 10X	07/29/16 05:19	93 D	92 D	74 D	67 D	0
011604646-34 10X	07/29/16 05:47	84 D	83 D	77 D	73 D	0
011604646-35 10X	07/29/16 06:15	95 D	93 D	79 D	73 D	0
011604646-36 10X	07/29/16 06:42	91 D	92 D	85 D	80 D	0
011604646-38 10X	07/29/16 07:37	82 D	81 D	88 D	84 D	0
011604829-1 CU	07/29/16 08:05	86	83	68	79	0

TCX=Tetrachloro-m-xylene
DCB=Decachlorobiphenyl

EMSL Analytical Inc.

PCB ORGANICS ANALYSIS DATA SHEET

		Customer Sample#:	MB 1 OP 3442-33 CU
Lab Name:	EMSL Analytical		
EMSL Sample ID:		**Project:**	
Lab File ID:	X51020.D	**Sample Matrix:**	SOIL / SOLID
Instrument ID:	ECD-X	**Sampling Date:**	12:00:00 AM
Analyst:	EH	**Date Extracted:**	7/28/2016
GC Column:	CLPest I (0.25 mm)	**Analysis Date**	7/28/2016 6:41:32 PM
GC Column 2:	CLPest II (0.25 mm)	**Sample wt/vol:**	10 G
% Moisture:	0	**Dilution Factor:**	1
PH:	0	**Concentrated Extract Vol:**	10 (mL)
GPC Cleanup(Y/N):	N	**Injection Volume:**	1 (ul)
Extraction Type:	3550C	**Sulfur Cleanup:**	Y
Method:	SW846 8081b/8082a		

CAS NO	COMPOUND	Report Limit (mg/Kg)	CONC. (mg/Kg)	Q
12674-11-2	Aroclor 1016	0.050		U
11104-28-2	Aroclor 1221	0.050		U
11141-16-5	Aroclor 1232	0.050		U
53469-21-9	Aroclor 1242	0.050		U
12672-29-6	Aroclor 1248	0.050		U
11097-69-1	Aroclor 1254	0.050		U
11096-82-5	Aroclor 1260	0.050		U
37324-23-5	Aroclor 1262	0.050		U
11100-14-4	Aroclor 1268	0.050		U

Qualifier Definitions
U = Undetected
B = Compound detected in method blank
E = Estimated value
J = Estimated Concentration. Detected below Practical Quantitation Level
D = Dilution40%

EMSL Analytical Inc.

SOIL / SOLID LCS/QCS/ LFB RECOVERY

	Lab Name:	EMSL Analytical		**Original**	LCS 1 OP		
				File ID:	X51020.D/X51021.D		
	*** : Values outside of**						
	COMPOUND	**CAS NO**	**LOW LIMIT**	**HIGH LIMIT**	**SPIKE ADDED mg/Kg**	**LCS CONC. mg/Kg**	**LCS REC%**
1	Aroclor 1016	12674-11-2	58	123	1.500	1.403	94
2	Aroclor 1260	11096-82-5	63	131	1.500	1.322	88
				Total Out			0 of 2

EMSL Analytical Inc.

SOIL / SOLID MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

	Lab Name:	EMSL Analytical		**Original**		011604646-29 MS 10X								
				File ID:		X51033.D/X51034.D/X51035.D								
	*** : Values outside of**													
	COMPOUND	**CAS NO**	**LOW LIMIT**	**HIGH LIMIT**	**RPD LIMIT**	**SAMPLE CONC.**	**MS SPIKE ADDED mg/Kg**	**MS CONC. mg/Kg**	**MS REC%**	**MSD SPIKE ADDED mg/Kg**	**MSD CONC. mg/Kg**	**MSD REC%**	**RPD %**	
1	Aroclor 1016	12674-11-2	12	164	25	0.000	2.976	3.291	111	2.953	3.389	115	4	
2	Aroclor 1260	11096-82-5	43	167	25	1.528	2.976	4.293	93	2.953	4.449	99	6	
				Total Out					0 of 2			0 of 2	0 of 2	

EMSL Analytical Inc.

SOIL / SOLID SURROGATE RECOVERY

Lab Name: EMSL Analytical

*** : Values outside of QC limits**
D: Surrogate diluted out

	Compound Name:	TCX	TCX2	DCB	DCB2	**Total Out**
	CAS #:	877-09-8	877-09-8	2051-24-3	2051-24-3	
	QC Limits:	(30-137)	(30-137)	(30-138)	(30-138)	
011605369-9 5X	08/25/16 13:17	90 D	92 D	69 D	70 D	0
011605369-2 5X	08/25/16 10:02	79 D	84 D	65 D	67 D	0
011605480-1 4X	08/25/16 10:11	65 D	73 D	57 D	65 D	0
011605369-3 5X	08/25/16 10:30	90 D	95 D	77 D	77 D	0
011605483-1 4X	08/25/16 10:41	48 D	55 D	42 D	47 D	0
011605369-4 10X	08/25/16 10:58	84 D	87 D	65 D	65 D	0
011605336-4 100X	08/25/16 11:12	D	D	D	D	0
011605369-5 10X	08/25/16 11:25	86 D	91 D	86 D	80 D	0
MB 1 OP 3483-31	08/25/16 11:42	82	81	82	77	0
011605369-6 10X	08/25/16 11:53	89 D	93 D	90 D	83 D	0
LCS 1 OP 3483-31	08/25/16 12:12	86	82	85	80	0
011605369-7 8X	08/25/16 12:21	87 D	91 D	73 D	74 D	0
011605369-8 10X	08/25/16 12:49	87 D	91 D	75 D	77 D	0
011605369-10 1kX	08/25/16 14:39	D	D	D	D	0
011605369-10 MS	08/25/16 15:07	D	D	D	D	0
011605369-10	08/25/16 15:36	D	D	D	D	0
011605369-11 10X	08/25/16 15:46	92 D	108 D	100 D	112 D	0
011605369-12 10X	08/25/16 16:17	91 D	108 D	98 D	110 D	0
011605369-14 10X	08/25/16 17:17	89 D	106 D	97 D	110 D	0
011605369-15 10X	08/25/16 17:48	83 D	100 D	97 D	110 D	0
011605369-1 5X	08/25/16 09:34	86 D	91 D	86 D	84 D	0
011605368-1 5X	08/25/16 09:41	86 D	89 D	67 D	90 D	0
011605369-13	08/26/16 09:35	D	D	D	D	0

TCX=Tetrachloro-m-xylene
DCB=Decachlorobiphenyl

EMSL Analytical Inc.

PCB ORGANICS ANALYSIS DATA SHEET

		Customer Sample#:	MB 1 OP 3483-31 CU
Lab Name:	EMSL Analytical		
EMSL Sample ID:		**Project:**	
Lab File ID:	Y46194.D	**Sample Matrix:**	SOIL / SOLID
Instrument ID:	ECD-Y	**Sampling Date:**	12:00:00 AM
Analyst:	EH	**Date Extracted:**	8/24/2016
GC Column:	CLPest I (0.25 mm)	**Analysis Date**	8/25/2016 11:42:00 AM
GC Column 2:	CLPest II (0.25 mm)	**Sample wt/vol:**	10 G
% Moisture:	0	**Dilution Factor:**	1
PH:	0	**Concentrated Extract Vol:**	10 (mL)
GPC Cleanup(Y/N):	N	**Injection Volume:**	1 (ul)
Extraction Type:	3540C	**Sulfur Cleanup:**	Y
Method:	SW846 8081b/8082a		

CAS NO	COMPOUND	Report Limit (mg/Kg)	CONC. (mg/Kg)	Q
12674-11-2	Aroclor 1016	0.050		U
11104-28-2	Aroclor 1221	0.050		U
11141-16-5	Aroclor 1232	0.050		U
53469-21-9	Aroclor 1242	0.050		U
12672-29-6	Aroclor 1248	0.050		U
11097-69-1	Aroclor 1254	0.050		U
11096-82-5	Aroclor 1260	0.050		U
37324-23-5	Aroclor 1262	0.050		U
11100-14-4	Aroclor 1268	0.050		U

Qualifier Definitions
U = Undetected
B = Compound detected in method blank
E = Estimated value
D = Dilution
P = Results between the two columns differ >40%

EMSL Analytical Inc.

SOIL / SOLID LCS/QCS/ LFB RECOVERY

Lab Name: EMSL Analytical **Original** LCS 1 OP

File ID: Y46194.D/Y46195.D

*** : Values outside of**

	COMPOUND	CAS NO	LOW LIMIT	HIGH LIMIT	SPIKE ADDED mg/Kg	LCS CONC. mg/Kg	LCS REC%
1	Aroclor 1016	12674-11-2	58	123	1.50	1.24	82
2	Aroclor 1260	11096-82-5	63	131	1.50	1.25	83
				Total Out			0 of 2

EMSL Analytical Inc.

SOIL / SOLID MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMSL Analytical **Original** 011605369-10 MS 1kX

File ID: X51589.D/X51590.D/X51591.D

*** : Values outside of**

	COMPOUND	CAS NO	LOW LIMIT	HIGH LIMIT	RPD LIMIT	SAMPLE CONC.	MS SPIKE ADDED mg/Kg	MS CONC. mg/Kg	MS REC%	MSD SPIKE ADDED mg/Kg	MSD CONC. mg/Kg	MSD REC%	RPD %
1	Aroclor 1016	12674-11-2	12	164	25	0.00	2.96	0.00	0 *	2.98	0.00	0 *	0
2	Aroclor 1260	11096-82-5	43	167	25	0.00	2.96	0.00	0 *	2.98	0.00	0 *	0
				Total Out					2 of 2			2 of 2	0 of 2

- **The LCS spike on the Matrix Spike and Matrix Spike Duplicate (MS/MSD) was diluted out due to high concentration of Aroclor 1260 in the unspiked sample.**
- **The laboratory control sample (LCS) recoveries fell within control limits.**

COCCIARDI and Associates, Inc.

Safety • Environmental Health • Emergency Preparedness
Consulting and Training

Attachment IV B

Laboratory Sampling Reports: Quality Control Replicate Sample Reports

Provided To:

United States Environmental Protection Agency

Notification and Certification in compliance with 40 CFR 761.61(a)(3)

Cocciardi Project No. 150794

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone: (856) 303-2500 Fax: (856) 858-4571 Email: EnvChemistry2@emsl.com

Attn: **Mike Baltrusaitis**
Cocciardi & Associates Inc.
1337 Veterans Memorial Drive
Jessup, PA 18434

Phone:
Fax: (570) 963-0242

1/4/2017

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 12/19/2016. The results are tabulated on the attached data pages for the following client designated project:

Scranton Lace - 150794

The reference number for these samples is EMSL Order #011608723. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Approved By:

Phillip Worby, Chemistry Laboratory Manager

The test results contained within this report meet the requirements of NELAP and/or the specific certification program that is applicable, unless otherwise noted.
NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, CA ELAP 187

The samples were received outside of the hold time for PCB analysis.

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the NELAP, unless specifically indicated. All results for soil samples are reported on a dry weight basis, unless otherwise noted. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (856) 303-2500 / (856) 858-4571
http://www.EMSL.com EnvChemistry2@emsl.com

EMSL Order:	011608723
CustomerID:	COCC45
CustomerPO:	150794
ProjectID:	

Attn: **Mike Baltrusaitis**
Cocciardi & Associates Inc.
1337 Veterans Memorial Drive
Jessup, PA 18434

Phone:
Fax: (570) 963-0242
Received: 12/19/16 7:30 AM

Project: **Scranton Lace - 150794**

Analytical Results

Client Sample Description 1-3-3A-DUP ***Collected:*** 7/7/2016 ***Lab ID:*** *0001*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.98	mg/Kg	12/29/2016	AB	12/30/2016	EH
3540C/8082A	Aroclor-1221	ND	0.98	mg/Kg	12/29/2016	AB	12/30/2016	EH
3540C/8082A	Aroclor-1232	ND	0.98	mg/Kg	12/29/2016	AB	12/30/2016	EH
3540C/8082A	Aroclor-1242	ND	0.98	mg/Kg	12/29/2016	AB	12/30/2016	EH
3540C/8082A	Aroclor-1248	2.9	0.98	mg/Kg	12/29/2016	AB	12/30/2016	EH
3540C/8082A	Aroclor-1254	ND	0.98	mg/Kg	12/29/2016	AB	12/30/2016	EH
3540C/8082A	Aroclor-1260	ND	0.98	mg/Kg	12/29/2016	AB	12/30/2016	EH
3540C/8082A	Aroclor-1262	ND	0.98	mg/Kg	12/29/2016	AB	12/30/2016	EH
3540C/8082A	Aroclor-1268	ND	0.98	mg/Kg	12/29/2016	AB	12/30/2016	EH

Client Sample Description 1-4-13A-DUP ***Collected:*** 7/7/2016 ***Lab ID:*** *0002*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.98	mg/Kg	12/29/2016	AB	12/30/2016	EH
3540C/8082A	Aroclor-1221	ND	0.98	mg/Kg	12/29/2016	AB	12/30/2016	EH
3540C/8082A	Aroclor-1232	ND	0.98	mg/Kg	12/29/2016	AB	12/30/2016	EH
3540C/8082A	Aroclor-1242	ND	0.98	mg/Kg	12/29/2016	AB	12/30/2016	EH
3540C/8082A	Aroclor-1248	ND	0.98	mg/Kg	12/29/2016	AB	12/30/2016	EH
3540C/8082A	Aroclor-1254	ND	0.98	mg/Kg	12/29/2016	AB	12/30/2016	EH
3540C/8082A	Aroclor-1260	ND	0.98	mg/Kg	12/29/2016	AB	12/30/2016	EH
3540C/8082A	Aroclor-1262	ND	0.98	mg/Kg	12/29/2016	AB	12/30/2016	EH
3540C/8082A	Aroclor-1268	ND	0.98	mg/Kg	12/29/2016	AB	12/30/2016	EH

Client Sample Description 1-4-25A-DUP ***Collected:*** 7/7/2016 ***Lab ID:*** *0003*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.93	mg/Kg	12/29/2016	AB	12/30/2016	EH
3540C/8082A	Aroclor-1221	ND	0.93	mg/Kg	12/29/2016	AB	12/30/2016	EH
3540C/8082A	Aroclor-1232	ND	0.93	mg/Kg	12/29/2016	AB	12/30/2016	EH
3540C/8082A	Aroclor-1242	ND	0.93	mg/Kg	12/29/2016	AB	12/30/2016	EH
3540C/8082A	Aroclor-1248	2.5	0.93	mg/Kg	12/29/2016	AB	12/30/2016	EH
3540C/8082A	Aroclor-1254	ND	0.93	mg/Kg	12/29/2016	AB	12/30/2016	EH
3540C/8082A	Aroclor-1260	ND	0.93	mg/Kg	12/29/2016	AB	12/30/2016	EH
3540C/8082A	Aroclor-1262	ND	0.93	mg/Kg	12/29/2016	AB	12/30/2016	EH
3540C/8082A	Aroclor-1268	ND	0.93	mg/Kg	12/29/2016	AB	12/30/2016	EH

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (856) 303-2500 / (856) 858-4571
http://www.EMSL.com EnvChemistry2@emsl.com

EMSL Order:	011608723
CustomerID:	COCC45
CustomerPO:	150794
ProjectID:	

Attn: **Mike Baltrusaitis**
Cocciardi & Associates Inc.
1337 Veterans Memorial Drive
Jessup, PA 18434

Phone:
Fax: (570) 963-0242
Received: 12/19/16 7:30 AM

Project: **Scranton Lace - 150794**

Analytical Results

Client Sample Description 1-4-37A-DUP ***Collected:*** 7/7/2016 ***Lab ID:*** *0004*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.93	mg/Kg	12/29/2016	AB	12/30/2016	EH
3540C/8082A	Aroclor-1221	ND	0.93	mg/Kg	12/29/2016	AB	12/30/2016	EH
3540C/8082A	Aroclor-1232	ND	0.93	mg/Kg	12/29/2016	AB	12/30/2016	EH
3540C/8082A	Aroclor-1242	ND	0.93	mg/Kg	12/29/2016	AB	12/30/2016	EH
3540C/8082A	Aroclor-1248	4.5	0.93	mg/Kg	12/29/2016	AB	12/30/2016	EH
3540C/8082A	Aroclor-1254	1.7	0.93	mg/Kg	12/29/2016	AB	12/30/2016	EH
3540C/8082A	Aroclor-1260	1.7	0.93	mg/Kg	12/29/2016	AB	12/30/2016	EH
3540C/8082A	Aroclor-1262	ND	0.93	mg/Kg	12/29/2016	AB	12/30/2016	EH
3540C/8082A	Aroclor-1268	ND	0.93	mg/Kg	12/29/2016	AB	12/30/2016	EH

Client Sample Description 1-8-CA-DUP ***Collected:*** 7/26/2016 ***Lab ID:*** *0005*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.82	mg/Kg	12/29/2016	AB	12/30/2016	EH
3540C/8082A	Aroclor-1221	ND	0.82	mg/Kg	12/29/2016	AB	12/30/2016	EH
3540C/8082A	Aroclor-1232	ND	0.82	mg/Kg	12/29/2016	AB	12/30/2016	EH
3540C/8082A	Aroclor-1242	ND	0.82	mg/Kg	12/29/2016	AB	12/30/2016	EH
3540C/8082A	Aroclor-1248	2.6	0.82	mg/Kg	12/29/2016	AB	12/30/2016	EH
3540C/8082A	Aroclor-1254	1.7	0.82	mg/Kg	12/29/2016	AB	12/30/2016	EH
3540C/8082A	Aroclor-1260	ND	0.82	mg/Kg	12/29/2016	AB	12/30/2016	EH
3540C/8082A	Aroclor-1262	ND	0.82	mg/Kg	12/29/2016	AB	12/30/2016	EH
3540C/8082A	Aroclor-1268	ND	0.82	mg/Kg	12/29/2016	AB	12/30/2016	EH

Client Sample Description 1-13-2A-DUP ***Collected:*** 7/15/2016 ***Lab ID:*** *0006*

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	3.6	mg/Kg	12/29/2016	AB	1/3/2017	EH
3540C/8082A	Aroclor-1221	ND	3.6	mg/Kg	12/29/2016	AB	1/3/2017	EH
3540C/8082A	Aroclor-1232	ND	3.6	mg/Kg	12/29/2016	AB	1/3/2017	EH
3540C/8082A	Aroclor-1242	ND	3.6	mg/Kg	12/29/2016	AB	1/3/2017	EH
3540C/8082A	Aroclor-1248	ND	3.6	mg/Kg	12/29/2016	AB	1/3/2017	EH
3540C/8082A	Aroclor-1254	ND	3.6	mg/Kg	12/29/2016	AB	1/3/2017	EH
3540C/8082A	Aroclor-1260	36	3.6	mg/Kg	12/29/2016	AB	1/3/2017	EH
3540C/8082A	Aroclor-1262	ND	3.6	mg/Kg	12/29/2016	AB	1/3/2017	EH
3540C/8082A	Aroclor-1268	ND	3.6	mg/Kg	12/29/2016	AB	1/3/2017	EH

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (856) 303-2500 / (856) 858-4571
http://www.EMSL.com EnvChemistry2@emsl.com

EMSL Order:	011608723
CustomerID:	COCC45
CustomerPO:	150794
ProjectID:	

Attn: **Mike Baltrusaitis**
Cocciardi & Associates Inc.
1337 Veterans Memorial Drive
Jessup, PA 18434

Phone:
Fax: (570) 963-0242
Received: 12/19/16 7:30 AM

Project: **Scranton Lace - 150794**

Analytical Results

Client Sample Description 1-13-22A-DUP ***Collected:*** 7/15/2016 ***Lab ID:*** *0007*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date*	*Analyst*	*Analysis Date*	*Analyst*
3540C/8082A	Aroclor-1016	ND	24	mg/Kg	12/29/2016	AB	1/3/2017	EH
3540C/8082A	Aroclor-1221	ND	24	mg/Kg	12/29/2016	AB	1/3/2017	EH
3540C/8082A	Aroclor-1232	ND	24	mg/Kg	12/29/2016	AB	1/3/2017	EH
3540C/8082A	Aroclor-1242	ND	24	mg/Kg	12/29/2016	AB	1/3/2017	EH
3540C/8082A	Aroclor-1248	ND	24	mg/Kg	12/29/2016	AB	1/3/2017	EH
3540C/8082A	Aroclor-1254	ND	24	mg/Kg	12/29/2016	AB	1/3/2017	EH
3540C/8082A	Aroclor-1260	200	24	mg/Kg	12/29/2016	AB	1/3/2017	EH
3540C/8082A	Aroclor-1262	ND	24	mg/Kg	12/29/2016	AB	1/3/2017	EH
3540C/8082A	Aroclor-1268	ND	24	mg/Kg	12/29/2016	AB	1/3/2017	EH

Definitions:

ND - indicates that the analyte was not detected at the reporting limit
RL - Reporting Limit (Analytical)

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Environmental Chemistry Chain of Custody

EMSL Order Number (*Lab Use Only*): 011608723

EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
FAX: (856) 786-5974

OrderID: 011608723

Report To Contact Name: Mike Baltrusaitis		Bill To Company: -Same-	
Company Name: Cocciardi and Associates, Inc.		Attention To:	
Street: 1337 Veterans Memorial Drive		Street:	
City: Jessup	State/Province: PA Zip Code: 18434	City:	State/Province: Zip Code:
Phone : 5702910030	Fax : 5702910035	Phone:	Fax:
Project Name: Scranton Lace 150794		U.S. State where Samples Collected: PA	
Number of Samples in Shipment: 8	Date of Shipment: 12/16/16	Purchase Order: 150794	Sampled By (Signature): MB
Please Provide results: ☐ FAX ☑ E-mail ☐ Mail		Email Results To: mbaltrusaitis@cocciardi.com	
Standard Turnaround Time: ☑ 2 Weeks	The following TAT's are subject to lab approval: ☐ 1 Week ☐ 4 Days ☐ 3 Days ☐ 2 Days ☐ 1 Day		

Failure to complete will hinder processing of samples

	Client Sample ID	Comp	Grab	Date/Time	Matrix (W=Water S=Soil A=Air SL=Sludge O= Other)	Preservative (1=HCL 2=HNO3 3=H2SO4 4=ICE 5=Other)	PCB							Comments
1	1-3-3A-DUP		✓	7/7/16	O	4	✓							
2	1-4-13A-DUP		✓	7/7/16	O	4	✓							
3	1-4-25A-DUP		✓	7/7/16	O	4	✓							
4	1-4-37A-DUP		✓	7/7/16	O	4	✓							
5	1-8-CA-DUP	✓		7/20/16	O	4	✓							

Released By (Signature)	Date & Time	Received By	Date & Time
MB	12/16/16 @ 14:30	[illegible] 20.7	12/19/16 7:30am

Please indicate reporting requirements: ☒ Results Only ☒ Results and QC ☐ Reduced Deliverables ☐ Disk Deliverable ☐ Other _____

Instructions or Comments: per client OK to proceed out of hold. OK to proceed w/o analyzing 'blank' (limited volume) MO 12/19

EMSL Analytical, Inc.
200 Route 130 North

Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
FAX: (856) 786-5974

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Environmental Chemistry Chain of Custody

EMSL Order Number (*Lab Use Only*): 011608723

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Failure to complete will hinder processing of samples				Matrix	Preservative	List Test(s)							
Client Sample ID	Comp	Grab	Date/Time	W=Water S=Soil A=Air SL=Sludge O= Other	1=HCL 2=HNO3 3=H2SO4 4=ICE 5=Other	PCB							Comments
6 1-13-2A-DUP		✓	7/15/16	O	4	✓							
7 1-13-22A-DUP		✓	7/15/16	O	4	✓							
8 160715-DRB		✓	7/15/16	W	4	✓							Decon Rinsate Blank

COCCIARDI and Associates, Inc.

Safety • Environmental Health • Emergency Preparedness
Consulting and Training

Attachment V

Landfill Permits

Provided To:

United States Environmental Protection Agency

Notification and Certification in compliance with 40 CFR 761.61(a)(3)

Cocciardi Project No. 150794

Lycoming Landfill Permit

Lycoming Landfill, PO Box 187, Montgomery, PA (ID #100963)

2540-FM-LRWM0009 4/2003

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF LAND RECYCLING AND WASTE MANAGEMENT

Permit
For
Solid Waste Disposal and/or Processing Facility
FORM NO. 8

Revised 12/17/10

Permit No.	100963
Date Issued	4/1/2010
Date Expires	4/1/2020

Under the provisions of the Pennsylvania Solid Waste Management Act of July 7, 1980, Act 97, a permit for a solid waste disposal and/or processing at (municipality) Brady Township in the County of Lycoming

is granted to (applicant) County of Lycoming

(address) Courthouse, 48 West Third Street
Williamsport, PA 17701

This permit is applicable to the facility named as and Lycoming County Landfill and described as:

360.1 Acres
Latitude 41° 09' 15"
Longitude 76° 55' 00"

This permit is subject to modification, amendment and supplement by the Department of Environmental Protection and is further subject to revocation or suspension by the Department of Environmental Protection for any violation of the applicable laws or the rules and regulations adopted thereunder, for failure to comply in whole or in part with the conditions of this permit and the provisions set forth in the application no. 100963 which is made a part hereof, or for causing any condition inimical to the public health, safety or welfare.

See attachment for waste limitations and/or special conditions

Patrick Bunnell

FOR THE DEPARTMENT OF ENVIRONMENTAL PROTECTION

This Permit is Non-TRANSFERABLE

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF LAND RECYCLING AND WASTE MANAGEMENT

Permit
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FORM NO. 8

Revised 12/17/10

Permit No.	100963
Date Issued	4/1/2010
Date Expires	4/1/2020

1. This permit modification is being issued pursuant to the Pennsylvania Solid Waste Management Act of July 7, 1980 and the Municipal Waste Management Regulations effective September 14, 2002. This permit modification is issued for the construction and operation of a 360.1 acres of landfill, of which about 93.8 acres are permitted Fields 1 through 10 and about 29.3 acres are the additional expansion known as Fields 11 and 12, within the existing permitted area, pursuant to, and including, the Application for Municipal or Residual Waste Permit originally notarized May 15, 2008 and the following information:

   a. Major Permit Modification Application–dated December 20, 2005

   b. Response to PADEP Comment Letter of December 22, 2008 - Form D and Benefits & Harms Analysis -March 10, 2009

   c. Revision to Narrative dated March 10, 2009

   d. Revision dated November 5, 2009

   e. All other related submissions/correspondence

2. This permit modification also includes the Application for Municipal or Residual Waste Permit for permit renewal notarized October 1, 2009.

3. This permit modification extends the permit expiration date (August 7, 2010) specified in the permit renewal issued on August 7, 2000. The term of the permit is extended for 10 years beyond the issuance date of this permit modification.

4. The permittee shall submit to the NCRO Waste Management Program, on a form provided by the Department, certification by a Pennsylvania registered professional engineer of site construction in accordance with the approved plans and 25 Pa Code § 273.203. Each phase of the landfill construction shall be certified.

5. The permittee is required to complete a daily operational record as required by 25 Pa. Code § 273.311. The daily operational record shall be recorded on a form supplied by the Department and shall be maintained on a daily basis and must be available at all times for review by the Department employees or their authorized representatives.

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6. The permittee shall submit to the NCRO Waste Management Program, a quarterly operation report as required by 25 PA. Code § 273.312. The report shall be submitted on or before the 20th day of April, July, October and January for the months ending the last day of March, June, September and December. The report shall be submitted on forms supplied by the Department.

7. The permittee shall submit to the NCRO Waste Management Program, an annual operations report on or before June 30 of each year in accordance with the requirements of 25 Pa. Code § 273.313.

8. No hazardous or toxic wastes or waste characteristic as identified in 25 Pa. Code Chapter 261a, may be managed or disposed of at this facility.

9. No lead acid batteries shall be placed into mixed waste at this facility, discarded or otherwise disposed of at this facility.

10. The permitted operating hours for the facility is 24 hours per day, seven (7) days per week for all operations not involving waste receiving. The permitted days and hours of operation for waste activities are from 6:00 am to 5:00 pm, Monday through Friday and 6:00 am to 2:00 pm on Saturdays, or such other hours as the host municipality may set by ordinance, pursuant to Section 304 (b)(2) of Act 101, the Municipal Waste Planning, Recycling and Waste Reduction Act, 53 P.S. Section 4000.304(b)(2). For purposes of calculation of average and daily waste volumes; each partial day shall be counted as one day.

11. No more than 2,000 tons of solid waste may be received at this facility for disposal on any single operating day. This figure represents the maximum daily volume of the facility, pursuant to Section 1112 of Act 101, the Municipal Waste Planning, Recycling and Waste Reduction Act, 53 P.S. Section 4000.1112, which section also provides that a mandatory civil penalty of $100 per ton applies to any excess volume received for disposal at this facility for any reason.

12. No more than 1,600 tons of solid waste may be received at this facility for disposal on an average daily volume basis over the standard calendar year quarter. This figure represents the maximum daily volume of the facility, pursuant to Section 1112 of Act 101, the Municipal Waste Planning, Recycling and Waste Reduction Act, 53 P.S. Section 4000.1112 and has been set after consideration of weather, seasonal variations, community cleanup days and other factors. Section 1112 applies to any excess waste received for disposal at this facility for any reason. The Department shall calculate any penalty after determining the total tonnage of solid waste received for disposal at this facility during the calendar year quarter, divided by the number of permitted operating days that the facility is permitted to accept waste for disposal during that quarter.

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13. Any increase in the average or maximum daily waste disposal amount will require a major permit modification to be submitted to the NCRO Waste Management Program for review. Written approval for an increase in daily waste amounts is required.

14. The following information, included in the permit application liner installation plan, shall be submitted to the NCRO Waste Management Program. This shall be done prior to the construction of the liner system for each landfill cell. Written approval from the NCRO Waste Management Program must be received by the permittee prior to beginning construction of the liner system including the subbase. The information to be submitted for any liner installation company shall include, but not be limited to, the following:

    a. Methods of installation
    b. Time Required
    c. Panel layouts
    d. Procedures for inclement weather
    e. Procedures for material delivery.
    f. Procedures for deploying all liner system materials
    g. Procedures for handling wrinkles in the liner
    h. Plans for laying out entire liner system and then covering or laying out liner system and covering as work progresses
    i. Identification (including resumes) and number of work crews

15. The geosynthetics listed in Appendix A of this permit are approved for installation in the liner system for this facility. These geosynthetic materials listed in Appendix A have been shown to be compatible with the expected leachate from this facility and have been demonstrated to have acceptable engineering properties including interface friction angles for use in the liner system. The list of geosynthetics in Appendix A may be amended by the permittee without modification of this permit. However, as a condition of this approval, any additional liner material not on the list shall be evaluated for leachate compatibility in accordance with Permit Condition 16 below and shall be demonstrated to have acceptable engineering properties including interface friction angles for use in the liner system. This information must be submitted to the NCRO Waste Management Program for review. Written approval must be received by the permittee from the NCRO Waste Management Program prior to using the specific geosynthetic in the liner system.

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16. With the exception of those geosynthetics already approved and which are listed in Appendix A, leachate compatibility testing shall be performed on all geomembranes, geonets and geotextiles to be used in the liner system. For geomembranes, the compatibility test procedure shall be based on USEPA or ASTM guidelines approved by the Department. For the geonets and geotextiles, the test procedures listed below are required. The results of the compatibility tests must be submitted to the NCRO Waste Management Program for review. Written approval must be received by the permittee from the NCRO Waste Management Program prior to using the specific geosynthetic in the liner system. These test procedures may be modified based on test developments by ASTM Committee D-35.

Geonets

Property (unit)	Test Procedure
a. Mass per unit area	Direct measure (sample size >1 sq. ft.)
b. Volatiles	Procedure for determination of volatile of exposed and unexposed FML_1
c. Extractables	Procedure for determination of extractables content of exposed and unexposed FML_1
d. Thickness (mils)	ASTM D-1777 (part 32)
e. Dimensions of configuration	Direct measure machine and cross matching (CM) direction
f. Specific gravity or density	ASTM D-792 Method A or ASTM D-1505 (dry sample before test)
g. CBR Puncture	Geosynthetic Research Institute (GRI) Test Method GS1 "CBR Puncture Strength
h. Strip Tensile Strength	Alternative Strip Tensile Test Method for Geonets

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i. Transmissivity (or flow rate) ASTM D-4716 [All laboratory testing for transmissivity of geonets should be conducted at the site conditions including: (i) gradient at site (minimum and maximum, (ii)identical representations of geosynthetic layers]

j. Compression Behavior of Geonets GRI Test Method GN1 "Compression Behavior of Geonets"

Footnote 1. Lining of Waste Containment and Other Impoundment Facilities: EPA; Sept. 1988; EPA 600/2-88-052.

Geotextiles

Property (unit)	Test Procedure
a. Thickness (mils)	ASTM D-1777 (part 32)
b. Mass per unit area (oz/sq.yd)	ASTM D-3776
c. Dimension (cm)	Direct measure machine and cross machine direction
d. Grab Tensile strength/ elongation	ASTM D-4632
e. Trapezoidal tear resistance	ASTM D-4533
f. Hydraulic burst strength	ASTM D-3786
g. Puncture resistance	ASTM D-3787
h. Permittivity	ASTM D-4491

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17. Upon receipt of the liner system geonets and geomembranes to the construction site, conformance testing shall be conducted on each type of material. The following physical properties shall be tested:

Property (unit)	Test Procedure
a. Density (minimum)	ASTM D-1505
b. Melt Flow Index (Maximum)	ASTM D-1238 Condition E
c. Percent Crystallinity	Differential Scanning Calorimeter

The frequency of the above tests shall be one set of tests for each truckload of material delivered to the site. Testing shall be conducted by the third party QA Laboratory.

18. Samples of all geosynthetic materials received shall be retained for future verification. The frequency of sampling shall be one sample for every truckload delivered.

19. All sample results from each layer of the liner system's preparation, construction and/or installation shall be submitted to the NCRO Waste Management Program for review. Waste may not be disposed of in an area until the following have been met:

a. A certification of Facility Construction Activity (Form 37) has been completed and received the NCRO Waste Management Program.

b. A field Quality Assurance report for each specific liner system layer's construction is submitted with the Form 37. At a minimum, this report shall include:

- Personnel involved with the project
- Scope of work
- QA and QC methods and activities
- Test results
- Problems encountered during construction and resolution of these problems.
- Field drawings signed and sealed by a Pennsylvania registered professional engineer.

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c. Written approval has been received by the permittee from the NCRO Waste Management Program for construction of each specific layer.

20. Upon completion of each layer of the liner system, the permittee shall notify the NCRO Waste Management Program that the liner layer construction activity is ready for inspection.

21. For all liner system layers, construction or installation of the next layer of the liner system may not take place until the Department has conducted an inspection of the previous liner system construction activity, all the approved minimum specifications for that specific pervious layer have been met and written approval has been received by the permittee from the NCRO Waste Management Program for construction of that specific pervious layer.

22. All daily Quality Assurance reports shall be available for review upon request by the NCRO Waste Management Program or their representatives.

23. There shall be at least one third-party QA monitor for each distinct work crew during the liner system construction and installation.

24. The Form R Waste Analysis and Classification Plan that specifies the conditions for accepting Form U and Form-FC-1 waste, in addition to the generic residual and special handling residual waste streams is contained in Appendix C of this permit.

25. Any changes to the design must be submitted to the NCRO, Waste Management Program and approved by the Department, in writing, prior to the change being made.

26. The benefits identified by the permittee in the Environmental Assessment portion of the permit application referenced in Condition 1 shall be provided as follows:

    a. Four dollars ($4.00) per ton disposal fee as required in Chapter 63, Act 90 passed by the Legislature and signed into law on June 29, 2002.

    b. Twenty 25 cent ($0.25) per ton fee as required by the 1999 Environmental Stewardship and Watershed Protection Act 68

    c. Two dollars ($2.00) per ton fee as required by the State Recycling Fee (Act 101).

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27. Approval of any plans or facility herein refers to functional design, but does not guarantee stability or operational efficiency. Failure of the measures and facility herein approved to perform as intended, or as designed, or in compliance with the applicable Rules and Regulations of the Department, for any reason, shall be grounds for the revocation or suspension of this permit. Failure of the permittee to comply with the terms of permit or conditions, or failure of the permittee to construct or operate the proposed facility in conformity with the approved plans shall be grounds for the revocation or suspension of this permit.

28. The activities authorized by this permit shall not harm or present a threat of harm to the health, safety, or welfare of the people or the environment of this Commonwealth. The Department may modify, suspend, revoke, or reissue the authorization granted in this permit if it deems such action is necessary to prevent harm or a threat of harm to the public or the environment, or if the activities cannot be adequately regulated under the conditions of this permit.

29. The permittee shall comply with the terms and conditions of this permit and with the environmental protection acts.

30. All applicable requirements listed in 25 PA Code, Chapter 273 of the Municipal Waste rules and regulations shall be complied with. Failure to comply with the Department rules, regulations and special conditions may result in enforcement actions by the Department.

31. The permittee shall comply with all applicable requirements of the Bureau of Air Quality Control, Bureau of Water Quality Management, and Bureau of Mining and Reclamation.

32. Precipitation collected in a disposal field may be handled by a sedimentation basin only if no wastes have been placed in that specific disposal field and no run-off from any other disposal field is occurring. Once waste is placed in a disposal field or run-off from other disposal areas is occurring, all water that is collected in the specific disposal field must be handled by the leachate collection system. Exceptions will be made only if tarps are used to divert stormwater and the stormwater is collected in sumps without contact with waste or leachate

33. All erosion and sedimentation control structures including diversion and collection ditches, sedimentation basins and traps, silt fences, culvers and discharge structures shall be installed in accordance with the approved plans, 25 Pa. Code Chapter 102 and 25 Pa. Code § 273.151 and § 273.242 to § 273.244. All buried culverts and discharge pipes shall be installed such that they are

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protected from yielding, buckling and cracking.

34. Erosion and sedimentation control structures must be inspected on a regular basis during operation, closure and post closure periods. Inspections shall be conducted at least monthly and after each storm event as described in the Maintenance Program Section of Form I of the permit application. Any required maintenance shall be conducted immediately after the inspection.

35. Records shall be kept on the amount of leachate recirculated, problems encountered due to pipe collapse or clogging, leachate outbreaks and leachate short circuiting and the method of correction of any problems. The records shall be kept on a monthly basis and retained at the facility for the life of the facility. These records shall be available for inspection by the Department or its representative upon request.

36. The permittee shall prevent trucks exiting the facility from tracking mud and other contaminants such as debris, litter, solid waste and leachate onto the public highway.

37. Litter shall not be allowed to be blown or otherwise deposited off-site.

38. Fences or other barriers sufficient to control blowing litter shall be constructed in the immediate operating area and all other areas necessary.

39. Litter shall be collected at least weekly from fences, roadways, trees and tree line barriers and other barriers and disposed of in the working face.

40. The permittee shall not accept solid waste transported to the facility in a vehicle in which the waste is not covered or secured in accordance with the Department's rules and regulations governing the transportation of waste.

41. A copy of the complete Waste Management permit application, including all updates and revisions, shall be retained on site.

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42. All waste transportation using the LCRMS shall be monitored for compliance with Act 90. The Waste Transportation Safety Program (WTSP) of Act 90 requires owners of waste transportation vehicles (trucks registered for more than 17,000 pounds and trailers registered for more than 10,000 pounds) that regularly transport municipal or residual waste to a processing or disposal facility in the Commonwealth of PA to obtain written authorization from the Department. Act 90 additionally prohibits municipal or residual processing facilities from accepting waste after December 26, 2002 from vehicles that do not have a valid authorization sticker.

43. Nothing in this permit shall be construed to supersede, amend or authorize violation of the provisions of any valid and applicable local law, ordinance or regulation provided that said local law, ordinance or regulation is not preempted by the Pennsylvania Solid Waste Management Act, the Act of July 7, 1980, P.L. 380, No. 97, 35 P.S. § 6018.101, et seq.

44. The permittee shall not cause or allow water pollution within or outside of the permitted facility. Pollution for the purposes of this condition shall not be limited to groundwater, but shall include surface water discharges. Degradation to any of the monitoring points dedicated to the facility, shall be reported to the NCRO Waste Management Program in accordance with 25 Pa. Code § 273.286. The permittee must initiate a groundwater assessment plan in accordance with 25 Pa. Code § 273.286 to determining the source of the contamination at the monitoring point. Based on the results of the groundwater assessment plan, an abatement plan in accordance with 25 Pa. Code § 273.287 shall be submitted to the NCRO Waste Management Program as required.

45. All monitoring point sample sheets, whether from quarterly or annual samples, shall include, at a minimum the following information, which shall be measured in the field at the time of sampling:

- Water level depth
- Sampling depth
- Water temperature
- pH
- specific conductance

46. Quarterly chemical analysis reports of all monitoring points must be submitted to the Department within 60-days of sampling or 15-days after completion of the chemical analysis, whichever is sooner.

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47. On each anniversary of the issuance date of this permit, annual chemical analysis reports of all monitoring points must be submitted to Department within 60-days of sampling or 15-days after completion of the chemical analysis, whichever is sooner.

48. If groundwater samples cannot be obtained from any of the monitoring well(s), the well(s) shall be redrilled or relocated so as to obtain water for sampling groundwater. The permittee shall notify and obtain writing approval from the NCRO Waste Management Program prior to drilling and reconstructing any new monitoring wells.

49. All monitoring wells shall be pumped at a rate so as not to cause excessive turbidity. If turbidity values exceed 5 NTU, all metals shall be tested for dissolved values to be included with the quarterly and annual chemical analysis reports.

50. Approved Alternate Daily Cover (ADC) meeting the requirements of 25 PA Code § 273.232 may be used as a daily cover material. No more than a five (5)-day supply of alternate daily cover material shall be maintained on site at any time.

51. The permittee shall obtain the required DEP Bureau of Air Quality permit prior to construction.

52. The permittee shall comply with all applicable conditions of the permit modifications that have been approved since issuance of Solid Waste Permit No. 100963 on August 7, 2000. This permit continues the approval of the listed previously approved permit.

53. As a condition of this permit, and of the permittee's authority to conduct the activities authorized by this permit, the permittee hereby authorizes and consents to allow authorized employees or agents of the Department, without advance notice or a search warrant, upon presentation of appropriate credentials, and without delay, to have access to and to inspect all areas on which solid waste management activities are being or will be conducted. The authorization and consent shall include consent to collect samples of waste, water or gases, to take photographs, to perform measurements, surveys and other tests, to inspect any monitoring equipment, to inspect methods of operation, and to inspect and/or copy documents, books or papers required by the Department to be maintained. This permit condition is referenced in accordance with Section 608 and 610(7) of the Solid Waste Management Act, 35 P.S.§§ 6018.608 and 6018.610(7). This condition in no way limits any other powers granted under the Solid Waste Management Act.

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54. The permittee shall not violate, or cause or assist in the violation of, any provision of the Municipal Waste Planning, Recycling and Waste Reduction Act, 53 P.S. § 4000.101 et seq., or the terms or conditions of any municipal waste management plan approved by the Department under the Act. The permittee shall not allow solid waste to be received, disposed or otherwise managed at the facility if the transportation to, or management at the facility would violate applicable laws in effect in the county or state in which the waste was generated, or would violate state or local solid waste management plans in effect where the waste was generated.

55. The Lycoming County Landfill, which is owned and operated by the Lycoming County Commissioners and Lycoming County Resource Management Services respectively, is hereby authorized to accept the generic residual and special handling wastestreams as specified in the Form R Waste Analysis and Classification Plan of the permit application, with revisions to Tables R-1, R-2, R-3, R-4A and R-4, and with the following specific conditions for accepting wastes for disposal:

a. All wastes for acceptance shall be consistent with the requirements stated in this approved Form R, Waste Analysis and Classification Plan.

b. Submittals for the initial acceptance of individual generator wastes, identified in Table R-1, shall contain all information required by the respective forms and a signature of the official certifying the results for the generator.

c. Submittals for the initial acceptance shall include all applicable Form U parameters unless the absence of parameters is certified in writing by the generator. Absence of parameters refers to absence in leaching and not total concentration. Generator certifications for absence of specific parameters shall be based on generator knowledge or known chemical composition of the waste.

d. The minimum analytical requirements for initial waste characterization and reanalysis are designated in Table R-2. The results of the reanalysis shall be received by the permittee on or before the anniversary date of this approval and shall be maintained at the permittee's site for five (5) years from the date the results were received. The results shall be made available to the Department upon request.

e. All waste will be analyzed by a Department accredited laboratory using the most recently promulgated test method updates. Test methods will be EPA or other methods acceptable to the Department.

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f. Waste acceptance limits shall be as designated in Table R-4.

g. Total analyses, in mg/kg, may be reported in lieu of leaching analyses for metals or organics, provided that the results for the total concentration do not exceed twenty (20) times the 80% warning limits for waste acceptance as shown in Table R-4.

h. The NCRO Waste Management Program shall be notified when the 80% warning limits of Table R-4 are met or exceeded, to discuss increased monitoring frequency and/or additional test parameters. If toxicity parameters are met or exceeded, the reanalysis may be a statistical treatment of the data.

i. Additional analytical requirements for initial characterization and wastestream reanalysis shall be determined according to the procedures set forth in this permit.

j. The NCRO Waste Management Program shall be notified if a waste is accepted which is chemically incompatible with a waste already received at the facility. The permittee shall discuss with the NCRO Waste Management Program abatement alternatives for implementation. The permittee shall receive written approval from the NCRO Waste Management Program prior to implementation of any abatement alternatives.

k. Mixing residual wastes from the same or different generator is acceptable, provided the permittee maintains proper records and can demonstrate waste stream tracking from the generation sources and complies with the regulations. Commingling special handling wastes with other waste types and with other generator's wastes is acceptable only as specifically provided by Department regulations. Waste stream analyses must be performed prior to mixing.

l. Where applicable, Form U's shall include separate residual waste code lists to identify Incidental/Small Quantity Process Waste.

m. Cement kiln residue (RWC 212) from generators burning hazardous waste fuels or using waste as raw materials shall be evaluated on a case-by-case basis for acceptance and monitoring.

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n. In the event leachate treatment capability is reduced or more restrictive leachate discharge limitations are imposed by the Department or treatment facility, the permittee shall submit for review and written approval a permit modification application for the Form R leachate treatability to the NCRO Waste Management Program.

o. If the permittee wants to modify the acceptance limit concentrations or chemical test parameters, a minor permit modification must be submitted to the NCRO Waste Management Program for review and written approval.

p. Modifications of residual waste codes (RWC's), for acceptance of wastes for disposal not approved in the Waste Analysis and Classification Plan included in the permit application, or this permit, shall be a major permit modification, per 25 Pa. Code § 271.144.

q. Written requests for minor permit modifications to accept or modify the acceptance of large quantity (>2,200 lb/mo) residual or special handling waste, shall be submitted to the NCRO Waste Management Program on forms supplied by the Department, including Source Reduction Strategy.

These written requests must be received by the NCRO Waste Management Program, by: certified mail with a return signature card, or be hand delivered with documentation from the Department that the information was properly received, or other acceptable means by which the permittee is able to track receipt dates.

If not disapproved by the Department, the requested waste may be accepted for disposal fifteen (15) Departmental working days after receipt of the written request.

If it is determined after the fifteen (15) Departmental working day period that waste accepted was not consistent with this Waste Analysis and Classification Plan or the design of the landfill site, the permittee shall be subject to any and all applicable enforcement actions of the Solid Waste Management Act or the Department's rules and regulations promulgated thereunder. The absence of disapproval by the Department during or after the waiting period does not constitute an approval or final action of the Department.

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r. The permittee shall not accept residual or special handling waste from any generator who has not provided a Form 26R to the permittee. Submittal of Form 26R to the permittee shall comply with the timetable established under 25 Pa. Code §287.54(b).

s. The Form 26R shall include written documentation that the waste is not a hazardous waste under 25 Pa. Code Chapter 261a., and written documentation that the waste continues to meet the landfill's Form R waste acceptance criteria.

t. Form 26R analysis or certification required under 25 Pa. Code § 287.54 shall be maintained at the permittee's site for five (5) years from date of receiving the form and shall be made available to the Department upon request.

u. The permittee shall receive annually from small quantity residual waste generators and large quantity generators of small quantity waste types, written documentation that their waste is not hazardous waste under 25 Pa. Code Chapter 261a., and continues to meet the landfill's Form R waste acceptance criteria. This documentation shall be filed at the facility site for five (5) years from the dates of receiving the forms and shall be made available to the Department on request. If documentation is not supplied, the facility must no longer accept that waste until such time as the generator supplies it.

v. All Form U and special-handling waste Department forms, Form 25R, Form FC-1, and Form U-CS documents must be kept on file at the permittee's site for five (5) years from the dates of receiving the forms and shall be made available to the Department upon request per 25 Pa. Code §271.621.

w. The most recent sampling methods, analysis methods, Department forms and policies, shall be utilized at all times.

x. Each laboratory analytical report filed at the permittee's site or submitted to the Department in compliance with this permit, shall include the following information:

1. Chain-of-custody form for each sample shipment.
2. Name, signature, and title identifying sampler on chain-of-custody form.
3. Description of the field sampling
4. Proper analytical units on laboratory reports.

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5. Extraction, digestion, and analytical methods for all required parameters on laboratory reports.
6. Instrument detection/reporting limits for all required parameters on laboratory reports.
7. Sample collection date, laboratory sample received date, and date of laboratory analysis for all individual parameters, to verify holding times, on laboratory reports.
8. Signature and title of the responsible laboratory representative on laboratory reports.

y. Acceptance limits for waste excluded from regulation as hazardous waste under 25 Pa. Code § 261.4(a) shall be based on limiting factors of applicable toxicity parameters, liner compatibility, leachate treatability and waste-to-waste chemical compatibility.

z. The NCRO Waste Management Program shall be notified as soon as the permittee is aware that received waste is rejected and when waste failing on-site screening has been received and disposed.

All submissions required under this permit to the NCRO Waste Management Program shall be sent to the following address:

Environmental Program Manager
Department of Environmental Protection
NCRO Waste Management Program
208 West Third St., Suite 101
Williamsport, PA 17701

US Ecology Landfill Permit

US Ecology Michigan Landfill, 49350 North I-94 Service Drive, Belleville, MI 48111
(EPA ID# MID048090633)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

SEP 27 2013

REPLY TO THE ATTENTION OF:

CERTIFIED NO.: 7001 0320 0006 0185 5336
RETURN RECEIPT REQUESTED

Kerry Durnen
Director of Operations
Wayne Disposal, Inc.
49350 North I-94 Service Drive
Belleville, Michigan 48111-1854

Re: Final Federal TSCA Approval Modification,
Wayne Disposal, Inc., Belleville, Michigan

Dear Mr. Durnen:

Enclosed is the final federal Toxic Substances Control Act (TSCA) approval modification for Wayne Disposal, Inc.'s landfill in Belleville, Michigan. The approval is a chemical waste landfill approval to dispose of polychlorinated biphenyls (PCBs) issued pursuant to 40 C.F.R § 761.75 and replaces the approval issued on September 29, 2011.

On July 8, 2013, U. S. Environmental Protection Agency issued the draft federal Toxic Substances Control Act (TSCA) approval modification for Wayne Disposal, Inc.'s landfill in Belleville, Michigan for public comment. The draft federal TSCA approval was publicly noticed in the "The Belleville View" on July 3 and July 11, 2013. A copy of the draft federal TSCA approval was available for review at the Van Buren Township, 46425 Tyler Rd. Van Buren Twp, Michigan, 48111 and on the EPA website. In addition, EPA mailed fact sheets on the public comment period to community groups and individuals identified during Wayne Disposal's environmental justice analysis and community outreach activities. The public comment period was open through August 8, 2013, and EPA received no comments or meeting requests on the draft approval. As a result, EPA is now issuing Wayne Disposal, Inc., a final modified approval.

This approval may be withdrawn or further conditions may be added to it at any time the EPA has reason to believe that operation of the process represents an unreasonable risk of injury to human health or the environment. Withdrawal of this authorization or the imposition of further conditions may also result from future EPA rulemaking or development of guidance with respect to PCBs. Moreover, violation of any conditions included as part of this authorization may subject Wayne Disposal, Inc. to enforcement action and/or termination of this approval.

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It is the responsibility of you and your company, Wayne Disposal, Inc., to ensure that all applicable provisions of TSCA and the Federal PCB regulations are followed. Violation of any of the applicable provisions may be cause for rescission of this approval. Furthermore, this approval does not relieve Wayne Disposal, Inc., of the responsibility to comply with all other Federal, State and local regulations and ordinances for transportation, siting, operation and maintenance of its facility.

The EPA reserves the right for its authorized representatives to observe Wayne Disposal, Inc. disposal activities and inspect records which the company is required to maintain under the Federal PCB regulations and this approval during normal operation and at other reasonable times.

If you have questions concerning the final federal TSCA approval, please contact Karen Kirchner, of my staff, at (312) 353-4669.

Sincerely,

Margaret M. Guerriero
Director
Land and Chemicals Division

Enclosure

cc: Timothy Thurlow, EPA
Peter Quackenbush, MDEQ
Michael Tackas, WDI
Scott Maris, WDI

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5

IN THE MATTER OF:	)	
	)	**CHEMICAL WASTE LANDFILL**
Wayne Disposal, Inc.,	)	**APPROVAL TO DISPOSE OF**
49350 North I-94 Service Drive,	)	**POLYCHLORINATED BIPHENYLS**
Belleville, Michigan 48111-1854,	)	**ISSUED PURSUANT TO**
MID 048 090 633	)	**40 C.F.R. § 761.75**
	)	
APPLICANT.	)	

AUTHORITY

This chemical waste landfill approval (Approval) is issued by the United States Environmental Protection Agency to Wayne Disposal, Inc. (WDI), pursuant to Section 6(e)(1) of the Toxic Substances Control Act (TSCA), 15 U.S.C. § 2605(e)(1), and the federal regulations for disposal of Polychlorinated Biphenyls (PCBs) at 40 C.F.R. § 761.75. This Approval replaces the September 29, 2011 Approval previously issued to WDI.

Section 6(e)(1)(A) of TSCA, 15 U.S.C. § 2605(e)(1)(A), requires that EPA promulgate rules to prescribe methods for the disposal of PCBs. The regulations at 40 C.F.R. § 761.75 require, among other things, that various types of PCBs and PCB Items be disposed of in chemical waste landfills approved by EPA for PCB disposal. 40 C.F.R. § 761.75(a) designates the Regional Administrator as the approval authority for such PCB disposal facilities. 40 C.F.R. § 761.75(b) sets out a number of technical requirements for PCB disposal facilities. 40 C.F.R. § 761.75(c) prescribes the process by which an owner or operator of a chemical waste landfill may obtain approval to dispose of PCBs.

EPA Headquarters Delegation 12-5 authorizes the re-delegation of approval authority for PCB disposal facilities from Regional Administrators to Regional Division Directors. Under EPA, Region 5 Delegation 12-5, dated October 22, 2007, the approval authority for PCB disposal facilities was delegated to the Director, Land and Chemicals Division (LCD), EPA, Region 5.

None of the information required to be maintained under or submitted pursuant to this Approval is subject to the requirements of the Paperwork Reduction Act, 44 U.S.C. § 3501, et seq., because such information is collected by EPA from WDI for the purpose of assuring compliance with this Approval.

EFFECTIVE DATES

This Approval is effective upon the date of signature of the Director of LCD, EPA, Region 5. WDI's authorization to dispose of PCBs and PCB Items in the WDI Landfill under this Approval will be valid for a period of five (5) years, unless such authorization is suspended or terminated, as provided herein, or unless the time period is modified by EPA. Upon signature by the Director, the issuance of this Approval shall be considered final agency action.

BACKGROUND

The WDI Landfill Site # 2, located at 49350 North I-94 Service Drive, Belleville, Michigan (WDI Landfill), is a 193-acre chemical waste landfill that is divided into Master Cells V, VI and VII. The WDI Landfill is owned and operated by Wayne Disposal, Inc. The Environmental Quality Company owns Wayne Disposal, Inc.

The WDI Landfill was originally authorized under authority granted by the Resource Conservation and Recovery Act (RCRA), as amended, 42 U.S.C. § 6901 et seq., and was operated pursuant to a RCRA Hazardous Waste Management Permit issued by EPA and a Hazardous Waste Management Facility Operating License issued by the predecessor agency to the Michigan Department of Environmental Quality (MDEQ). WDI Landfill Master Cells V and VII, which do not contain PCBs, have been filled and closed, and are currently in post-closure care.

On March 15, 1995, WDI, as lessee and operator of the Landfill, submitted an application to MDEQ for a Hazardous Waste Management Facility Operating License, pursuant to Part 111 of the Michigan Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451), for Master Cell VI of the WDI Landfill.

On July 10, 1995, WDI, as lessee and operator of the Landfill, submitted an application to EPA for approval under 40 C.F.R. § 761.75, to dispose of PCBs and PCB-contaminated waste in Master Cell VI of the WDI Landfill.

On April 14, 1997, MDEQ issued a Hazardous Waste Management Facility Operating License to WDI for Master Cell VI of the WDI Landfill.

On April 14, 1997, EPA issued a TSCA Approval to WDI to allow the disposal of PCBs and PCB Items in Master Cell VI of the WDI Landfill. On December 23, 1998, the Approval was modified to reflect a transfer of ownership of the landfill property from the Ford Motor Company to WDI.

On August 24, 1999, WDI submitted an application to MDEQ requesting a major modification of the April 14, 1997, Hazardous Waste Management Facility Operating License for the WDI Landfill. WDI sought a modification of the Operating License to allow for a design change to expand the capacity of Master Cell VI by extending the cell both vertically and horizontally over closed Master Cell V.

APPROVAL

In accordance with 40 C.F.R. § 761.75 and the Findings above, EPA has determined that WDI's Application is consistent with TSCA, and that Master Cell VI of the WDI Landfill, when operated in compliance with the Conditions of Approval, does not present an unreasonable risk of injury to health or the environment from PCBs. Provided that the Conditions of Approval described above are met, WDI's April 18, 2012, request for an amended Approval is granted.

WDI is authorized to dispose of PCB waste in the remaining part of its previously approved and constructed four million three hundred twenty-five thousand (4.325 million) cubic yards of volume in Master Cell VI of the WDI Landfill, and may dispose of up to another eleven million seven hundred thirty thousand four hundred eighty (11.730480 million) cubic yards of PCB waste in Master Cell VI, including Subcells F and G, after these Subbcells are so constructed and certified by the MDEQ.

Date: September 27, 2013

Margaret M. Guerriero, Director
Land and Chemicals Division
United States Environmental Protection Agency
Region 5